

THE  
JOURNAL  
OF THE  
KEW GUILD

AN ASSOCIATION OF MEMBERS OF THE KEW STAFF  
PAST AND PRESENT

FOUNDED 1892

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**EVENTS OF 1974**

*(Published August 1975)*

Volume IX

No. LXXIX

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ROYAL BOTANIC GARDENS  
KEW

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**GORDON REGINALD GROVES**  
President, 1974/75

**GORDON REGINALD GROVES, O.B.E., A.H.R.H.S.,****President, 1974/75**

Gordon R. Groves was born on the 14th July, 1910, in North London and moved to Norfolk in 1918 where his father developed a fruit farm. It was this early introduction to commercial horticulture that stimulated his keen interest in gardening.

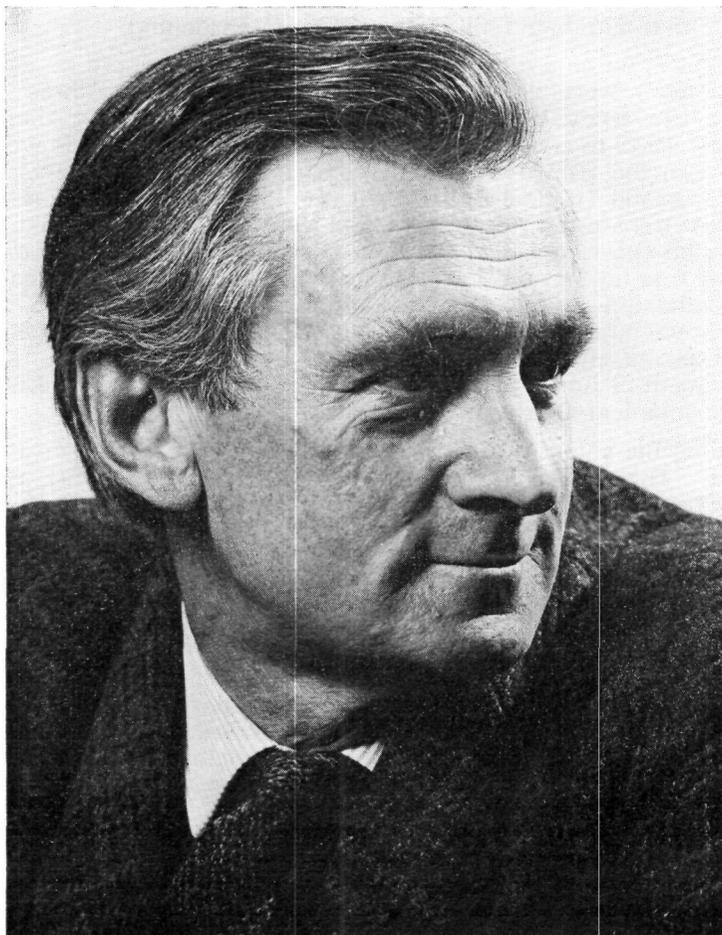
In 1927, he entered the University of Reading where he earned a Diploma in Horticulture. This course was followed by three years at the University Botanic Gardens, Cambridge, leaving there in October 1933 to enter the Royal Botanic Gardens, Kew. He worked at Kew in the Palm House under the supervision of the Assistant Curator of the Tropical Department, the late L. Stenning. Later on, he was transferred to the tropical fern houses where he was appointed sub-foreman of the Fern Division. It was while working at Kew that he became interested in an appointment overseas and joined the old British Colonial Agricultural Service in 1937, his first appointment being with the Department of Agriculture, Bermuda, as Horticulturist. In 1942, he was transferred to the Department of Agriculture, British Guiana (now Guyana) as Curator of the Botanical Gardens, Georgetown.

During his sojourn in Guyana, Bermuda suffered a severe catastrophe. The native cedar tree (*Juniperus bermudiana*) which dominated the landscape and formed the basic planting of most of the gardens became infested with two scale insects, the Juniper scale *Carlulaspis visci* and the oyster-shell scale, *Lepidosaphis newsteadi*. Approximately ninety per cent of the trees died as a result of these infestations despite the valiant effort of the Commonwealth Institute of Biological Control to control these scale insects by biological methods.

Gordon Groves was well-known in Bermuda and was requested by the Bermuda Government in 1949 to return to Bermuda as Assistant Director of the Department of Agriculture to take charge of the felling of the dead trees and to replant the denuded areas. The work of reforestation of the Colony resulted in a major upward surge of ornamental horticulture which helped to improve Bermuda as a tourist resort. In 1955, our President was appointed to the position of Director of the Department of Agriculture and Fisheries, Bermuda, from which position he will retire on the 14th July, 1975.

The Royal Horticultural Society recognised the work of Gordon Groves in 1960 and awarded him the Associateship of Honour. This recognition was followed by the award of the O.B.E. in the New Year's Honours List, 1963.

He married Olive (née Waterworth) in April 1940 and has one son. His wife Olive died in March 1973 after a long and tedious illness. On the 14th December, 1974, he married the former Mrs. Rosemary Gutteridge. He intends to retire in Bermuda where he has made a large circle of friends.



**GEORGE BROWN**  
Vice-President, 1974/75

## GEORGE ERNEST BROWN

### Vice-President, 1974/76

George was born in Jinja, Uganda, on 19th March, 1917, his father being an Old Kewite (1903) (Vice-President 1963-65), but he spent most of his boyhood days in the fruit growing area of Kent. After attending the Royal Grammar School, Guildford, George started work at a nursery specialising in herbaceous plants—Messrs. Gibson and Amos, Ltd., Cranleigh. Two years later he moved to Winterfold House, Hertwood Common, a garden which grew many rare and tender trees and shrubs gathered by the owner, Mr. Armytage Moore, who contributed to most of the famous plant-hunting expeditions. The next move two years later in November, 1936, was to Holmbury House, Holmbury St. Mary, a home of the Guinness family where bedding, decorative displays in the mansion, and fruit outside and under glass were specialities.

His early studies were through a correspondence course for the R.H.S. Senior Examination and in 1938 he gained a 1st Class Certificate. Although accepted for a 2-year studentship at Kew this never materialised, for the war intervened. George joined up on February, 1940, and served with the Queen's Royal Regiment for six years, the greater portion of this time being spent overseas. He successfully took the N.D.H. Intermediate Examination upon re-entry into civilian life, gaining the N.D.H. Final a year later whilst at Kew, which he entered in July, 1946, under the Ex-Servicemen's 1-Year Trainee Scheme.

During September, 1947, George left Kew to take up the post of Lecturer at Swanley, later the Kent Horticultural Institute. It was here that he met Miss Mary Webber, a student at Swanley who was to become his wife.

George returned to Kew on 2nd January, 1956, to take up the post of Assistant Curator, following Sydney Pearce in the Arboretum. The Browns with their daughter Sally and son Robert took up residence in the old cottage by Kew Palace.

George is a founder member of the Arboricultural Association and took part in the production of their earlier booklets. Writing is one of his hobbies, expressed also in his Editorship of the *Kew Guild Journal* and in his book—*The Pruning of Trees, Shrubs and Conifers*, published by Faber and Faber. With his wife he enjoys gardening, cactus growing and camping, with a general appreciation of the countryside.

## THE ROLE OF LAND BASED PROFESSIONS IN THE FUTURE

An account of the speech given by Clifford R. V. Tandy, FILA, RIBA, President of the Institute of Landscape Architects, Presentation Day, 1974

"When I started my career which is not all that long ago (some 35 years) professions and trades were in neat little separate packets each with their own distinct role; the 'affluent society' had not been thought of; unemployment marches were common; miners' children in South Wales were dressed in rags; but much of society was very satisfied with life—the British Empire was a permanent (!) institution, petrol was 1/- a gallon, and gardeners still existed !

"This is not nostalgia, not the ramblings of senility, but just a way of indicating the rapidity of change. For instance, travel, particularly by air, was rare; hundreds of fields disappeared annually under concrete and houses without complaint; National Parks for Britain had not been thought of; in far countries, lions, tigers and elephants and nearly all wild animals merely to be hunted; children were taught that India, Africa, Asia, Central Australia and South America (80 per cent of the world !) were jungles full of savage tribes, to be shot on sight by the comic-strip heroes of the time ! Of course, much of it was bad teaching and schoolboy imagination, but even so—what an incredibly short time (35 years out of man's half million on earth) to reach the recognition that man is just one more species on 'spaceship earth'; that all natural resources are finite and limited; that every action of every race affects to some degree the future of every other race; that the basic materials of life—soil, plants, water, air, bacteria on the whole earth's surface—are liable to damage, and destruction by the pollutants from industrial processes of the few affluent nations.

"Now this is not intended to be a 'doomwatch' paper, but rapid changes past and future, of this kind, have set a new problem for professional people whose role has widened so much in their own lifetime. It is only comparatively recently that an architect, for instance, has acquired a quasi-judicial role between client and contractor. Previous to that he was the paid 'employee' of the client alone. See how this has further changed: Today the large part of professionals, technicians and academics are working directly or indirectly for the public. Even those of us in private practice feel divided loyalties, and are aware that we have a commitment (which might be a conflicting one) to the land, the landscape and all its inhabitants.

"Unfortunately, simultaneously with this broader recognition of social responsibility by ourselves, has come a growing suspicion by the public, of professionals, planners, designers, technicians and 'experts' of all kinds. We, of course, are ourselves guilty of making the suspicions worse by the use of 'cult words' and technical jargon in our in-language. We must become aware that even 'Design' is now suspect, and is, among some sections of the community equated with middle-age, middle-class values, being

lumped together with the packaging and salesmanship tricks of big business.

"People like Schumaker in his book *Small is Beautiful* and Papanek in *Design for the Real World*, have warned us that the third world is reacting against the 'elitist triva' that the West serves up and is demanding simple, inexpensive, well-functioning artifacts related to their life style, and uplifting their quality of life by 30 to 50 per cent, and not a useless 300 per cent. Schumaker's dictum has become a truism—'If you wish to double the production of a man with a sickle, you give him not a tractor but a scythe'. It is still valid today. Papanek gives us two useful quotations: 'Design should intervene to a minimum extent in human relationships', and 'When designing for undeveloped countries, do as little as possible, in order to do as little damage as possible'. Seeing what has happened about Planning and Industrial Design leads me to question then, the role of Landscape Design and Horticulture today. Are they sufficiently part of 'grass roots' to hold their place when basic values are challenged?

"I suggest that the most difficult part of our work today is finding out what people want. The majority of the public probably does not know—or at least could not express as a useful brief—what its needs and desires are in terms of using open space for working, recreation or other forms of satisfaction. One vague trend which emerges is a growing interest in the *total* quality of life—a unification of interests which before was fragmented. This—among other reasons—is why I spoke of 'drawing things together', because our various groups are no longer able to go their separate ways, planting forestry, laying out gardens, planning parks, studying specimens, breeding hybrids.

"We are all—whether we choose it or not—drawn partially or wholly into the great team exercise of creating the human *environment*. There is that word—I had to use it some time. It is very well worn, but there is no substitute for it—the ENVIRONMENT.

"Landscape is not the whole of environment, but then it is a large part of it. Of course the landscape profession feels that it has a particular role in creating, restoring or preserving the landscape components of 'environment', but there are very few landscape architects to take up these challenges, and so it *has* to be a team effort on the part of all who have interests in the subject.

"Landscape design has changed its direction considerably in recent years, towards the wider human problems. It is little concerned with private gardens and municipal parks, but its members are engaged—with those in other disciplines—in such work as: Environmental impact studies for reservoirs, oil terminals, chunnel rail links; Location selection for power stations, refineries, smelters; Landscape quality evaluation at county and regional level; Treatment of motorways and trunk roads; Reclamation of derelict land and landscape for industry, and design of country parks.

"In these sorts of projects, and, hopefully, the larger ones that lie ahead, we need multiple skills. We have to work together with planners, ecologists, foresters, hydrologists, engineers, horticulturalists, climatologists, biogeographers, etc. I favour, not great hierarchies, but small, multi-disciplinary problem solving teams working together in single projects. An important aspect—now to be included is the after-care and management of the land. In fact, in landscape it is now seen as a continuing process. There is no moment when initial design ends and management takes over, because the success or failure of, for instance, a reclaimed site of a country park, is in its planned management for at least three years and probably fifty years.

"As an example, we are, in Stoke on Trent, reclaiming hundreds of acres of derelict land in the centre of the town and using them for forest park, picnic areas, sports stadia, boating, swimming and model boating lakes, nature reserves and pedestrian greenways linking other sites together on the routes of old railway lines. In the design we are not duplicating municipal parks, but are striving to reintroduce the natural Midlands flora of hedgerow, bank, common, which has been lost to agriculture and parks type management. This means seeking sources of wild flower seeds, even using students to collect and propagate them. It means a precise grass-cutting regimen twice yearly with spot weed-killing in place of the easier gang-mowing. It sometimes means allowing grass and seeds to grow together until the *desirable* wild flowers can be distinguished from the notifiable weeds.

"As you see—this is a long way from a simple design and construct contract handed over to Parks Department for the traditional manicuring. It means a three year maintenance contract with the original contractor followed by a programme of sympathetic care planned for each site, and run by staff with ecological skills. Of course greater changes lie ahead; agriculture is likely to become an intensive industry behind barbed wire on best quality land, and animals in 1000-head buildings producing manures full of anti-biotics! Forestry already changing to a recreation based policy, but neither subject to planning control.

"Settlement pattern is related to population explosion and the mind boggles at the task of duplicating every major city in the world in the next 15-20 years. The land-take alone would be fantastic, and the infra-structure needed to make the quality of life worthwhile calls for skills we have not yet learned. We may, of course, have complete mobility—'plug'-in homes and clip-on architecture! Will the townscape and landscape settings be equally temporary? New York City is already trundling around 12 mobile playgrounds, and home-landscapes can be rented by the week!

"Directly, industry is improving its image and even using less land, but the indirect effect of using up natural resources is frightening. The reckless waste and failure to re-cycle in U.S.A. has already led to shut-downs and short time over shortages of copper, zinc, brass, sheet metal, tallow, paper and aluminium.

The public has recently become 'conservationist' and there are outcries when good scenery is sacrificed to mineral extraction, but it is pertinent to wonder whether under-developed countries will feel the same, and whether the objections will last under the pressure of *real* shortages. The recent 'energy-crisis'—small as it was—shows how quickly actions are taken by governments with the cry of 'expediency'.

"Talking of energy takes us into the subject of transport where the motor car has given man (or at least many men) a fantastic degree of personal mobility. The social benefits are great, but the social costs of this mobility are unbelievable. The U.S.A. is adding paved surfaces to its landscape at the rate of 200 miles per day. To me it is inconceivable that any other private social asset would be given so much public investment!

"Finally, 'recreation', probably the most rapidly moving change in land use. You know all about shorter hours, increased leisure, boredom, vandalism, public pressures. More people are watching sport than taking part. The football stadium with its ten acre car park is best on derelict land, not on good grassland. Novelty and fashion influence recreation, and there is a remarkable dichotomy—that simultaneously with the demand for outdoor sports, climbing, sailing, potholing and interest in 'nature' activities, there is growing the 'second-hand' experience—the desire to see everything through a car windscreen or a T.V. set—what one might call 'climbing Old Man of Hoy' from an armchair! At its ultimate there is the 'Disneyland' experience in which a whole new recreation industry is geared up to simulate different forms of experience in a wholly artificial environment.

"Can the natural landscape stand up to the competition? Well—it is much easier to state problems than offer solutions. My talk has been wide ranging—a little gloomy, but perhaps it has shown that there is an enormous task ahead of all of us who are in any way concerned with the land, and that, at least, we are all involved in it together!"

FOOTNOTE: The presentation of Kew Diplomas and Prizes was held in the Jodrell Lecture Theatre on Thursday, 19th September, 1974, and the ceremony was opened by the Director, Professor J. Heslop-Harrison, who welcomed the students and guests, and introduced Mr. Tandy. Mr. Tandy said that he was pleased to be invited and saw it as a method of strengthening the relationship between Kew and the ILA, particularly as he had been conscious of the fragmentation of the training and experience of those whose interests lie in the uses of the land. He attempted to draw together many loose ends, making one whole subject of wider importance than the sum of individual parts.

Following the ceremony, tea was served in the lower Nursery Centre. A display of students' work and of aspects of the course was arranged in the Jodrell Laboratory for the interest of visitors.

## NEWS OF KEWITES AT HOME AND ABROAD

**Christopher Bamkole** (1971) has been granted study leave for the whole of 1975 by the University of Ife, Nigeria, where he is employed in the Parks and Gardens. He will spend the year in Britain, pursuing the I.P.R.A. course at the Grotto.

**R. A. Bee** (1953) spoke to the Kew Mutual Improvement Society on 18th November in the Jodrell Lecture Theatre about Manchester Parks of which he is Director.

**John Beswick** (1967) left for Australia on Tuesday, 3rd December, 1974, to take up duties as Landscape Architect in the Public Building Department at Adelaide, South Australia.

**Ian Beyer**, Deputy Curator, attended a conference on 'Tree Growth in the Landscape' at Wye College from 1-5th April, 1974. The conference visited Ham Street Meads Nature Reserve, and Hollywood at Halmstone Beach, Dungeness, where Hollies have established over some 50 acres of pure shingle. On 13th June he attended with Charles Erskine an A.D.A.S. Conference at Harlow College on Nursery Stock.

**Robin Bletsoe** (1972), who is now Technical Assistant at Harlow wrote in January to Kew. The department at Harlow hopes to establish a Butterfly and Moth Garden and Robin asked for information based on experience in the Queen's Cottage grounds.

'**Sid**' **Bonsey**, now working in the Temperate House is to be congratulated on his completing in May 1974 fifty years of service to Kew without a break. Sid began work at Kew in 1924 as a carter with the horses. When Zenobia and Blossom, the last two horses employed at Kew, retired Sid stayed on, and worked in the Arboretum, from where he later transferred to the Temperate Department. Sid is now the longest serving member of the staff.

At the end of November, **Peter Brandham** of the Jodrell Laboratory Staff and John Hale (Gardens Supervisor) began the first stage of an East African expedition. Other members of staff would be replacing them in the field at intervals.

**J. P. M. Brenan** (Keeper of the Herbarium and Deputy Director) who was President of the Guild in 1972-73, visited the U.S.A. from 20th March to 3rd April, 1974, acting as a member of a special panel of the U.S. National Academy of Sciences on Plant introductions, particularly to underdeveloped countries. On 31st March he attended the opening of the exhibition of the work of Kew artists at the Hunt Botanical Library in Pittsburgh, and he also visited the Fairchild Tropical Garden, Florida. Early in June he visited the Muséum National d'Histoire Naturelle, Paris, for meetings of the working groups set up by the NATO EDP Meeting at Kew in October 1973, and in September he attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) in Geneva. In October, Mr. Brenan

was in Leiden for a meeting of the NATO-Kew EDP Meeting Working Party, and was elected to the Council of the Royal Geographical Society in November.

**Bill Bridle**, Gardens Supervisor, transferred from the Temperate House to the Jodrell glass in October 1974.

**Dick Brummitt** (Herbarium) attended the 8th Conference of the Association pour l'Étude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva from 16th to 21st September 1974.

**Clive Bulmer**, following three years as a Student, left Kew in December 1974 to take up his Thornton-Smith Travel Scholarship in the Hawaiian Islands.

**Ken Burras** (1954) of the Oxford University Botanic Garden, visited Wakehurst Place on 8th May, 1974, to look over the living collections.

**B. L. Burt** (1951), who was for many years a member of staff in the Kew Herbarium and is a life-member of the Guild, periodically returns from Edinburgh Botanic Gardens. He came for a short time to work particularly on our collections of Gesneriaceae and Zingiberaceae in March 1974 and again in November.

In March 1974 **Mark Coode**, who is engaged in the preparation of a flora of the Mascarene Islands in the Herbarium, spent three weeks collecting on Mauritius followed by two weeks in Réunion before returning to Kew, via Geneva. The trip was successful and included rediscovery of *Elaeocarpus integrifolius*, *Tacca artocarpifolia* and *Euodia segregis*. In December he gave a talk on "Papuanugini—A case for Preserving Paradisia", based on his experiences during six years working in Papua—New Guinea.

In October 1974 **Mrs. Violet Danes** (1918) moved from Wheatthampstead in Hertfordshire to Lincolnshire, but before leaving, she sent photographs of the bungalow and garden she had designed and developed during the past 10 years from an old orchard on a chalk spur of the Chiltern Hills. Many of the original apple trees were left growing and still produce good fruit.

On the 1st March, 1974, **Dr. Frances Davies** joined the Herbarium staff as a Senior Scientific Officer to work with Charles Jeffrey in Section IV of the Herbarium Division.

**Mike Dawes**, our new Editor, who was Gardens Supervisor in charge of Technical Services and a former student, left Kew in October 1974 on promotion to Projects Officer for the Borough of Hammersmith. He was the first editor of *Eurogardeners' News* and a formal farewell and presentation was held on October 10th in the Gardens' Library.

**Miss A. G. Buller** (1947) is now married (Mrs. Deneys) and living in Goostrey, Cheshire.

Last August, **Miss Molly Eady** (1945) went with a party of about 70 to Equador and the Galapagos. In her letter she continues: "We spent a few days on the R. Napo—a tributary of the Amazon—very jungly indeed—whereas the dessicated sparse flora of the Galapagos could not have been more contrasted. (We only saw the coastal parts and it was the dry season—the highlands on the bigger islands are quite lush.) The birds and beasts (mainly sea lions and fur seals and the great tortoises of course) native to the islands are most touchingly tame and trusting—one can walk right up to a bird like our buzzard—and it regards one tranquilly, without moving. One is accepted as part of the landscape and not Man, the Killer—a moving experience."

**Charles Erskine** (Assistant Curator, Temperate Department) was a member of the expedition to Bahia in Brazil during the first few months of 1974. He reported that 28 days were spent at Itakuna, where the vegetation was of cut over woodland, open grassland and some relatively virgin woodland. During this period of collecting over 10,000 sheets of Herbarium specimens were made. He also visited some Coastal forest at Porto Saguo. The party returned home safely at Easter.

As from Tuesday, 28th May, 1974, Mr. Erskine formally assumes responsibility for the Records Section of the Living Plants Division, from Mr. R. I. Beyer, Deputy Curator. In June both of them attended an A.D.A.S. Conference at Harlow College on Nursery Stock.

**Paul Everett** (1974), who came to Kew in 1969 and became Garden Supervisor in the Outside Section of the Decorative Department is now in Tinana, Queensland, Australia.

**F. W. Fisher** (1939) is still working with the Wargraves Commission, but has left Arras, France, and is serving as Area Superintendent for South West England and Wales with an office in Cheltenham. His home is in Wells, Somerset.

In a volume to mark the centenary of the present Copenhagen Botanic Garden (1874-1974) (Beretning om Bota-nisk Haves virksomhed for arene 1972-1974 [Copenhagen]), an account is given of the work of **Ernst Floto** (1928) by his son Franz (pp. 22-24 (Danish); pp. 92-94 (English)). Ernst Floto was Assistant Curator of Copenhagen Botanic Garden from 1928 until 1955 and then became Curator from 1956-1969. An article "Maintenance and methods of cultivation past and present" by Ernst Floto appears in the Centenary volume pp. 120-122).

**Dr. P. J. Greenway** (1925), who was President of the Guild from 1971 to 1972 and who has been associated with, or in charge of, the E. African Herbarium, Nairobi, for some 45 years, visited the Herbarium at Kew on 25th July.

**Christopher Grey-Wilson** (Herbarium) gave the first of the 1974/75 Tuesday evening lectures in the Jodrell lecture theatre on 15th October, when he talked about "Plant collecting on the

frontier of Tibet". The lecture illustrated his 1973 expedition to the Dolpo Region of Nepal and some of the people and plants of that unique "Tibetan" region.

**John Hacker**, at present in his third year, is the first student from Kew to be awarded the Garden Club of America Exchange Scholarship. This is administered by the English Speaking Union of the Commonwealth in conjunction with the Stanley Smith Horticultural Trust. Sir George Taylor, formerly Director of Kew and a trustee of the Guild, who administers the Trust, was very gratified that a Kew student had been awarded the fellowship. John hopes to take up the fellowship by spending a year at Rutgers University, New Brunswick, New Jersey, starting in September 1975.

In October 1974, **John Hale**, Gardens Supervisor and Guild Treasurer, transferred from the Tropical Pits to the Staff Training Section, and at the end of November, after a last minute dash to obtain his tickets, he eventually managed to fly to Nairobi to join Dr. Peter Brandham on the East African Expedition. Although it was a rapid transition to temperatures of 80 and 100°F. in the shade they began collecting almost immediately and visited various parts of Kenya, northern Tanzania and southern Ethiopia.

**Raymond Harley** of the Herbarium staff spent the first three months of 1974 in Bahia, Brazil, leading an expedition with Miss Christine Brighton (Jodrell Laboratory, Charles Erskine (Temperate Department, Assistant Curator) and Steve Renvoize (Herbarium) making up the team. They had a very successful time collecting in species-rich country and Dr. Harley found all the *Eriope* species described from Martius' collections and hitherto known only from the type specimens in Munich. Later in February they moved to the drier mountains of northern Bahia. By the 18th March they had collected 2,035 numbers mostly in sets of 10 herbarium specimens. Living plants and seeds mainly of Bromeliads, Orchids and Cacti were also collected as well as numerous cytological collections. The party returned home safely at Easter.

**Allan Hart** (1958) of East Sheen, visited the Herbarium and Library from time to time during the summer in connection with his work as a landscape architect. He was then engaged in finding suitable plants for cultivation on Porto Santo near Madeira.

**J. H. Hemsley** (1956), at one time on the F.T.E.A. staff in the Herbarium and latterly Director of Wildlife in Tasmania, has been appointed to the post of Conservation Adviser with the National Trust. This work involves travelling widely visiting properties in England and Wales in order to advise on nature conservation; a most welcome new post for the National Trust.

Our Secretary, **Nigel Hepper** (Herbarium) attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) in Geneva from 16th to 21st September, 1974.

In January, the Director, **Professor J. Heslop-Harrison**, was in Miami to receive the Robert A. Cooke Award of the American Academy of Allergy and delivered a lecture on the biology of pollen. Later, in May, he gave the Croonian Lecture at the Royal Society on "The Physiology of the Spore Surface", and was invited to act on the Governing Council of the John Innes Institute. On 10th October he was elected a Foreign Fellow of the Indian National Science Academy, and in the same month he attended, with Mr. Lucas and Dr. Melville, the I.U.C.N. Survival Service Meeting in Morges, Switzerland, where they dealt with matters relevant to the threatened Plants Committee and the Red Data Books.

**Miss Sheila Hooper** (Herbarium) attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva from 16th to 21st September, 1974.

**Bob Hughes**, who began at Kew in 1970, replaced Paul Everett as Supervisor, Outside Section of the Decorative Department in May 1974.

**David Hunt** (Herbarium) left for California on 10th September, 1974, to attend the XIII Congress of the International Organization for Succulent Plant Study at Los Angeles, of which he is chairman of the Conservation Committee. After the meeting he continued to Mexico to collect material of *Separothea* and other problematical *Commelinaceae* in the Sierra Madre Occidental.

**Frances Jarrett** (Herbarium) attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva from 16th to 21st September, 1974.

**Otto Leistner** (1967) who was S. African Liaison Officer at Kew between 1963 and 1967 and is a member of the Guild, made a return visit to the Herbarium from 3rd to 6th September, 1974.

**T. R. N. Lothian** (1940), Director of the Botanic Garden, Adelaide, with Mr. J. P. M. Brenan, Professor G. Gillett (Hawaii) and Professor A. Smith (Mass., U.S.A.) and their wives visited Wakehurst Place on 29th June, 1974, to see the Living collections.

**Gren Lucas** of the Herbarium staff spent a week in May at Morges, Switzerland, at the Headquarters of the International Union for the Conservation of Nature (IUCN), attending, on the Director's behalf, the meeting of the Survival Service Commission, at which the Endangered Plants Committee was set up, Dr. R. Melville also attending the meeting. In September, Mr. Lucas attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva. He was also in Washington for an international meeting from which he reported that preliminary studies on the U.S. flora had revealed that there are nearly 100 probably extinct, 500 critically endangered and a further 1,500 threatened species out of a total population of 20,000. This is remarkably close to the predicted 10 per cent for the world. In

October he returned to Morges with the Director and Dr. Melville for another meeting of the IUCN Survival Service Meeting, dealing with matters relevant to the Threatened Plants Committee and the Red Data books.

**Mr. Harry Marshall's** funeral was attended on 4th April, 1974, by David Wilson, the Deputy Librarian, and a wreath of flowers from the Gardens was sent on behalf of the Director and Staff and another from the Guild. Mr. Marshall was at Kew from 1932-1961 when he retired as Librarian. (See Obituary, pp. 343.)

**Jim Mateer**, Gardens Supervisor, transferred from the Seed Unit to the Arboretum in October 1974.

**R. D. Meikle** (Herbarium) went to Cyprus for a month from 16th March, 1974, to undertake field work and discuss arrangements for the printing of the *Flora of Cyprus*, vol. 1. While on the island, in addition to giving lectures on the Cyprus flora and the work of Kew to audiences at the British Council and the Forestry College, he was interviewed by Cyprus Television, and thus provided with an opportunity for stressing the importance of setting aside areas of the island as national parks. Some areas, especially around Kyrenia and Famagusta, have already been "developed" in a regrettable way and it must be assumed that the whole coastline is threatened. After a wet winter the flora was in excellent condition and some of the collectings made are likely to prove of exceptional interest. In June, Mr. Meikle accompanied Mr. Brennan to Paris for meetings of the NATO EDP working groups, and again in October to a similar meeting in Leiden.

**George Nicholson**, Gardens Supervisor, transferred from the "T" Range to the Tropical Pits in October 1974.

**Patrick Nutt** (1953) writing from Pennsylvania in July, sent his best wishes and indicated that he would be pleased if any students visiting the U.S.A. would contact him.

**Joel A. Obi** (1960) spent three months during 1973 in the United States, attending a plant introduction course. He planned to visit Kew on his return journey but at the last minute his route was changed.

**Ted Oliver** (1969) who was South African Liaison Officer in the Herbarium, Kew, from 1967-1969 and is a member of the Guild, became engaged to Miss Inge Nitzsche who works in the Stellenbosch Herbarium, Cape Province.

**V. T. H. Parry**, previously at the British Museum (Natural History) was appointed Chief Librarian and Archivist at Kew on 9th May, 1974.

**Graham Pattison** (Gardens Supervisor) carried out curatorial duties in the Temperate Department during Mr. Erskine's absence in South America at the beginning of the year, and in October 1974 transferred from the Alpine and Herbaceous Department to the "T" Range.

**David Pegler** (Herbarium) was awarded a Ph.D. by London University on 18th March, 1974. His thesis was entitled "A preliminary Agaric flora of East Africa". Later in the year, on 13th October, he left for three months in India and Sri Lanka (Ceylon) at the request of the Centre for Advanced Studies in Botany at Madras University. He concentrated on the collection of higher fungi, mainly in Southern India, but visits were also made to Delhi and Darjeeling. Soon after his arrival he found a probable new species of *Tricholoma* growing in the grass on the Madras University Campus and writing in November after his visit to Sri Lanka he said that he had not seen rain since leaving London. This had meant that there had been a disappointing number of fungi, although collecting was better at higher altitudes in the Nilgiri Hills.

**Leo Pemberton**, Supervisor of Studies, in August 1974 was elected Vice-Chairman of the Board of Governors of Norwood Hall Institute of Horticultural and Agricultural Education. In the same month he supervised the practical examination for experimental gardeners, held at the Luddington Experimental Horticultural Station. The examination was a qualifying one similar to that which is operated at Kew for the up-grading of gardening staff.

**David Philcox** (Herbarium) visited the herbaria in Geneva and Paris in March 1974 to study material of the family *Pariperaceae*, towards completion of the next part of the "Flora of Trinidad and Tobago" on which he is working.

**Barry Phillips** (1972), who, as recorded in the 1973 Journal, is a Demonstrator at Merristwood and joined the Kew Botanical Expedition to the Dolpo Valley, West Nepal, in 1973, with Christopher Grey-Wilson, spoke to the Kew Mutual Improvement Society on 7th October, 1974, the talk being entitled "Plant Collecting in North-West Nepal".

**Mrs. Sylvia Phillips**, who left Kew in 1972 after working in the Grass Section of the Herbarium returned on 29th July, 1974, to take up a *part-time appointment, reading proof of the new Kew Record of Taxonomic Literature*. Congratulations to Sylvia and her husband Brian on the birth of their daughter Linda Marilyn on 30th September, 1974.

**Roger Polhill** (Herbarium), accompanied by his wife Diana, visited the Herbarium of the University of Florence for two weeks in March 1974. In September they both attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva from the 16th to the 21st.

In August, **Jim Protheroe** (1970) wrote from Guernsey saying that he was very busy and sending greetings to all his friends and fellow students who were at Kew with him.

**Dr. Derek A. Reid** of the Mycological Section in the Herbarium, left on an overland journey to Bulgaria on 7th August, 1974, and

arrived in Sofia on 26th for 10 days. His visit was partly a Cultural Exchange Programme sponsored by the British Council. He collected fungi en route and broke his journey in Austria for a week to attend a foray of Austrian mycologists in Carinthia. He returned to Kew in mid-September.

**Dr. Norman Robson**, formerly on the Kew Herbarium staff and now at the British Museum (Natural History), visited Wakehurst Place on the 8th August, 1974, to see recent developments in the *Hypericum* collection.

**Colin W. Roome** (1963-65) crossed London from Bexley to Hillingdon in September 1974 to become an area Superintendent, responsible for a quarter of the 42-square-mile borough. Controlling eight foremen and a staff of 50, he is responsible for cost control, the operation of the bonus scheme, the hiring (and firing) of labour, correspondence and areas of maintenance, which include a countryside park, 700 acres of woodland, parks, open spaces, verges, recreation grounds and meeting halls.

**Ron Rule**, Gardens Supervisor, transferred from the Arboretum to the Temperate House in October 1974.

**T. Ainsley Russell** (1967) is now living in Roxburghshire and has sent his best wishes to friends and former colleagues.

A daughter, Heather Cheryl, was born on 6th September, 1974, to Jill and **Martin Sands**, our Assistant Secretary and a member of the Herbarium staff.

**Errol Scarr** (1967), now a Guild Committee member, is hoping to get an Association of Old Kewites going in South Africa. In December 1974 he wrote: "Distance is one of our greatest problems as we very rarely meet colleagues from Capetown and Johannesburg for example as they are 1,200 and 400 miles from Durban respectively. The one occasion that a get-together could be organised would be at the biennial Parks Administration Institute Conference. In 1976 it will be in Port Elizabeth and 1978 in Durban". Hopefully some Kewites will be meeting on those occasions. In his letter Errol Scarr records a debt of gratitude on behalf of overseas members to Mr. George Brown for his many years of sterling effort in editing the journal, the one vital means of keeping in touch with Kew, the Guild and former colleagues.

**Tony Schilling** (Assistant Curator, Wakehurst Place) attended, with Mr. Ian Beyer, the conference on "Tree Growth in the landscape" at Wye College from 1st to 5th April, 1974. On 12th and 13th June, 1974, he visited Bennett's Water Plant Farm at Weymouth and Stewards Nurseries at Wimbourne, Dorset, to see growing techniques, and to obtain wild collected stocks of British Aquatics for the Wakehurst Wetland Flora Projects. In September he went to the R.H.S. Gardens, Wisley, regarding materials of Bog Garden plants for this development and also Nymans Gardens, in connection with Rhododendron species exchange.

**Mrs. Dawn Scott** took up her appointment as Deputy Librarian at Kew on 4th November, 1974, on transfer from the Department of Industry. She replaced Mr. David Wilson, who left on 10th May.

**F. Senogles** (1949) left Matthew Arnold School in 1974 and was appointed Head of Rural and Environmental Studies at Faringdon School, Oxfordshire.

**H. K. Airy Shaw** (Herbarium) left on 9th September, 1974, for Australia, to call at Darwin, Brisbane, Atherton (N. Queensland), Sydney, Canberra and Melbourne, visiting herbaria, botanic gardens and forestry research stations in order to study Australian *Euphorbiaceae*. Later a letter from him conveyed something of the botanical excitement he was experiencing, especially during his visit to the Atherton Tableland.

The Curator, **John Simmons**, left for Trinidad, Venezuela and Brazil on 6th November, 1974, and returned in December. From Trinidad, he wrote that all was going well and that he had been collecting plant material in the northern range of mountains. The first consignment was received at Kew on 14th November in good condition.

**Brian Stannard**, who began his three-year Student-Gardener course in 1970, was awarded the Kew Diploma in 1973 and took up a post as an Assistant Scientific Officer in Section 2 of the Herbarium on Monday, 18th February, 1974.

**Mr. Victor S. Summerhayes**, who was in charge of the Orchid Section of the Herbarium until his retirement in 1964, visited Kew with his wife on 18th and 20th February, 1974. It was sad to learn of his sudden death in December.

**Peter Taylor**, who is in charge of the Orchid Section of the Herbarium, joined the R.H.S. Orchid Committee in April 1974.

**Miss Phyllida Tietze** (1968) writing in September, is enjoying her work with the Otley Parks Department in West Yorkshire but is greatly missing Kew as she is a "real" Kewite living for the first 26 years of her life within five minutes' walk of Victoria Gate. Her job will be brought into line with the Leeds Metropolitan District Council, either as Head Gardener or Nursery Manager. At the time of writing, she was running the Nursery, growing all the plants for Otley and maintaining a 10 acre park. In sending her best wishes she expressed a wish to receive news of Kew and Kewites.

**Alan Titchmarsh** (Gardens Supervisor), in 1974 attended the H.E.A. Spring Conference on turf culture and in June a M.A.F.F. Course at Pinner on Introduction to Management. On 6th September he left Kew to follow a new career in journalism. A former student, he had become well-known to many members of the staff through his work with the training scheme.

**Cliff Townsend** (Herbarium) left for the Soviet Union on 25th June, under the auspices of the British Council, to work for a short

while in the Leningrad and Tbilisi herbaria on material of *Haplophyl- lum* as well as to see one or two Caucasian species in the field.

**J. Ward** (1947), formerly at Saltwell Park, Gateshead, has taken up an appointment as a Garden Superintendent in New Orleans, Louisiana, U.S.A.

**John Warrington**, Assistant Curator, Tropical Department, together with Charles Erskine and Jim Keesing visited London Zoo in June 1974 to discuss the supply of surplus plants to the Zoo. In the same month there was a reciprocal visit by a party of Zoo staff members to look at the glasshouses, propagation areas as well as birds and fish.

**Norman Waumsley** (1948) was awarded the M.B.E. in the 1974 New Year's Honours List. He is Horticultural Officer with the County Engineer's Department of the Leicestershire County Council. Having been with this authority for 25 years, he has assisted the Local Government Training Branch in the preparation of an Instructor's Manual in Highway Horticulture. He is a founder member of the Arboricultural Association, is a member of the executive committee, was secretary of the Midlands Branch of the Association for four years and is now its Vice-Chairman.

**Gerald E. Wicken** (Herbarium) spent about two months from 20th July on Aldabra mapping the vegetation, and then from 16th to 21st September he attended the 8th Conference of the Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT) held in Geneva.

**David Wilson** (1974), who came to Kew in 1970 as Deputy Librarian and later acting Chief Librarian, left on 10th May to take up a new appointment as Librarian at the Atomic Weapons Research Establishment, Aldermaston.

**Keith R. Woolliams** (1963), writing from Waimea Arboretum, Hawaii, includes the following comments about his efforts to grow the giant water lily—*Victoria amazonica*—"You may be interested to know that we are germinating them on the aquarium floor on top of gravel. An air stone gives the semblance of water movement. So far we have four very strong-growing seedlings. The next stage will be a large horsetrough while the construction of the lake, which will be their home, is being completed".

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Agreement has been reached with the Department of Education and Science that holders of the Kew Diploma may, if they care, place *Dip.Hort.(Kew)* after their names to signify their attainment.

Further copies of the Wakehurst Place booklet can be obtained from the Guild at a price of 50p each.

## AN EXPEDITION TO INDONESIA

Through the generosity of the Thornton-Smith Trust I was able to realise my ambition to visit Indonesia, this choice of location for an expedition being determined by the rich variety of the flora, and the fact that little collecting had been carried out in recent years by British Institutions. My aim was to collect living plant material for introduction to Indonesian and United Kingdom Botanic Gardens. As my experience of collecting in the wild was limited, I sought advice from Kew and Edinburgh as to the genera particularly required which included members of the Gesneriaceae, Hymenophyllaceae and Zingiberaceae.

On arrival in Indonesia I went directly to Bogor, south of Djakarta, to stay with Mr. J. B. Comber (1955) who very kindly provided both a base and useful guidance on suitable localities to visit.

My first excursion to the forest was made in West Java. I went with Dr. John Dransfield and some of the Bogor Herbarium staff to an area near Sukanegara, south of Bogor. This area proved to be most interesting, yielding such plants as *Ceratolobus concolor* (Palmae) a second record for Java, and also *Phalaenopsis javanica*. This orchid is now very rare in Java and all precautions should be taken to ensure its survival. There are fortunately a number of plants growing well in the orchid collection of the Botanic Gardens in Bogor. I myself collected some *Aeschynanthus* spp. and also a few Hymenophyllaceae. It was a great experience for me to see such plants as *Rhododendron javanicum* and *Medinilla species* growing in the wild, having only known them previously from British glasshouses. A number of other short excursions were made to various parts of West Java prior to my departure for Sumatra. The most interesting being to the volcano Tangkuban Prah, one of the many surrounding the town of Bandung. The summit of this mountain is about 1,800 metres high, and owing to the sulphurous fumes, the vegetation has been virtually reduced to two species of plant—*Selliguea feei*, a fern, and a member of the Myrtaceae. This volcano is still quite active although there have not been any major eruptions for some time. At the end of January I spent ten days in the province of Bengkulu in South-west Sumatra, accompanied by Sukristiono Sukardjo, a member of the staff at Bogor. His help, together with that of local forestry officers, enabled me to accomplish many tasks. We were taken to see the reserve at Dusun Besar, which is a habitat of *Vanda hookerana*, growing and flowering in profusion together with a species of Pandan—*Pandanus heliopus*. We stayed one week with Mr. Matsaa, the ranger in charge of the area around the village of Pagar Gunung where *Rafflesia arnoldii* grows locally. The forest around this village was very rich in plants of botanical and horticultural interest. Living material collected included a number of orchid species now in Bogor, and a number of potentially good ornamental plants such as *Pandanus lartus*, *Phyllagathis* sp. and some *Aeschynanthus* spp. This particular area was botanised by William Jack when he was

working for Raffles at Bencoolen (Bengkulu) in the early nineteenth century. It is the locality of a number of his type specimens. From the end of February to the end of March I accompanied Dr. Mien Rifai, Keeper of the Bogor Herbarium, Dr. John Dransfield, Colombo Plan Forest Botanist, and Dr. Edward de Vogel, Botanist, Rijks-herbarium, Leiden, and some other members of the herbarium staff, on an expedition to the province of West Sumatra. The largest town in this province is Padang and we were fortunate in being able to base ourselves initially at the government rest house there. We went first to the village of Muara on the main road to Jambi, where there are some very interesting limestone ridges which Dr. Dransfield had seen on a previous visit and thought would be worth botanising. Our expedition was, in fact, probably the first to collect in this area, although Dr. Willy Meijer has collected in other parts of this province. A number of his duplicate specimens are held at the Universitas Andalas in Padang which might interest botanists at Kew. There are some fine examples of interior lowland forest surrounding these limestone ridges which contain some very interesting plants. Unfortunately, the whole area was very dry at the time of our arrival, which meant that there were few undergrowth plants flowering. However, Dr. Dransfield found a good number of interesting Palms including *Calamus marginatus* which was a first record for Sumatra, it being usually found in Borneo. We climbed two of the ridges which reached an elevation of about 1,000 metres. The plant life here was of course totally different to the forest vegetation lower down and I saw species of *Boea*, *Chirita* and *Tacca* as well as numerous little orchids and ferns in some cases growing right on the bare rock. Two *Begonia* species were most interesting (Nos. 204 and 229), and the Asclepiadaceae was well represented in this area also. The Kuantan River flowed through the gorge created by the ridge, and on one of the islands in the river we found many plants of *Amorphophallus titanum*. Sadly none were fully out but the foliage was in itself magnificent.

Returning along the Padang road to Air Sirah (Red Water) we investigated an area of Upper Hill Dipterocarp Forest. This contained a totally different flora from that previously seen—masses of epiphytes and a very dense undergrowth layer containing some good plants. I found my first *Nepenthes* sp. (AP 287) here, and also an outstanding yellow *Aeschynanthus* sp. (AP 291). We found this only once as a small plant growing in the locality.

Several days were then spent sorting out the collected material and packing herbarium specimens into stout polythene bags and covering them with alcohol—a much simpler method than the old way of drying over a fire. After this we moved to the southern end of the province, between Tapan and Sungei Penuh, staying for a week or so. This was in the Bukit Barisan—the mountain range running the length of Sumatra on the western side. We collected from an altitude of 500 metres to about 1,500 metres. Higher up we found some very fine orchids, including my first *Paphiopedilum* sp. (probably *P. curtisii*). We also found two

species of the genus *Corybas* which are usually no more than one inch high. *Angiopteris evecta*, a large fern, grew all along the roadside and was a very fine sight. Palms here were interesting and included a new arborescent *Daemonorops* sp. On a little ridge jutting into the valley we saw some magnificent *Agathis* sp. (AP 348), and also some *Pinus merkusii*, a useful forest tree in the tropics. A herbaceous plant of some interest was a *Pentaphragma* sp. which is placed in a family of its own, but is believed to be close to the Begoniaceae.

Below an altitude of 450 metres we returned to the lowland forest with again little interesting undergrowth, although there were some superb mature Dipterocarps. After this visit we moved about 200 kilometres north of Padang to a nature reserve called Rimbu Panti. This is again lowland forest, but nothing like any we had seen before. There is a lot of thermal activity in the area and orchids were growing in quantity over the hot springs. Botanically, we found the forest of very little interest, mainly because it seemed to contain large quantities of very few genera. Again, it was very dry and we thought that this might result from the area being in the rain shadow of Gunung Talakmau (Mount Ophir), some sixty kilometres to the west. One plant I found of interest was an *Amorphophallus* sp. in full flower (AP 371). This reserve is principally famed for its animal life, and is noted for the tigers which are supposed to abound there.

Returning towards Padang, we stopped at the *Rafflesia* reserve near Bukittinggi. Sadly there was only one enormous bud to be seen. It is luck indeed to catch the fully opened flower. This completed our trip to West Sumatra which for myself was a wonderful experience. It was particularly valuable to have the opportunity to work in the field with experienced botanists. I think the expedition proved especially useful to the Indonesian members, who rarely get the opportunity to travel.

#### *State of the Forests and Flora Generally*

I saw only a small fraction of the forests in Indonesia and never any of those being severely damaged by large scale felling. However, the creation of illegal Ladangs, or areas of cultivated ground in the forests is a very serious problem, in spite of strict laws to prevent it. After a few years of cultivation the soil is spent, erosion sets in or the land is colonised by Alang-Alang (*Imperata* sp.) a plant which makes forest regeneration virtually impossible. Illegal timber extraction by the local people is carried on continually, which together with exploitation by nurserymen who export orchids and other choice plants, leads to the destruction of natural habitats of many plants species. *Vanda* and *Paphiopedilum* are the genera principally involved. The populations of these plants are being stripped from the most accessible areas with no thought for the future. Central Government has banned the export of orchids from Indonesia, and permits need to be obtained

for the export of other plants. The aims of international conservation are being followed but at the same time the local populace needs to be educated to manage a potential resource. The fauna was heard but rarely seen, the white-handed Gibbon and Siamang being particularly vociferous, together with many birds—again unseen but recognised by their calls. Snakes were also rarely seen, but I was very pleased to see the flying lizard perform on one occasion.

To conclude, I must thank the Director of the Royal Botanic Gardens, the Trustees of the Bentham-Moxon Trust and the Thornton-Smith Trust for making the money available to carry out my trip. It was a unique experience for me and one which would not have been possible otherwise. I must also thank all those in Indonesia, particularly Dr. Rifai and Dr. Dransfield who made all my various expeditions possible. A special word of thanks must go to Mr. James Comber for his hospitality. His outstanding knowledge of Indonesian orchids was of the greatest help to me on many occasions.

Andrew Paterson.

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PANDANUS PALMS  
7,500ft. Iveryuva (Central district Papua)

## SOME NOTES ON AN EXCURSION TO NEW GUINEA AND NEW ZEALAND

Since taking over the Tropical and Temperate fern collection upon Mr. Bruty's retirement in 1970, it became evident that a visit to the tropics would be of benefit in my work with this specialised plant group. Bert had spent many months under tropical conditions, although through a very difficult time during the last war, but I recall him explaining about the heavy soil types and rain forest vegetation during my spell in the Fernery as an improver. Trying to re-create specific habitats from collectors' notes is not easy to accomplish, and it seemed the only solution was to go and see the plants I was dealing with in their natural environment.

With these thoughts in mind and two countries in view, Papua, New Guinea, and New Zealand, I set about finding ways and means of bringing such a trip to fruition. After some initial setbacks and disappointments from applications to outside organisations, I heard that my case submitted to Professor Heslop-Harrison had been accepted, and I would be able to start a six-week study tour on December 5th, 1973. I received confirmation in June and from then until departure the months flew by while arrangements were tied up, contacts made and the hundred and one other things sorted out.

My wife accompanied me and 20.00 hours on that cold winter evening saw us aboard a B.O.A.C. 747 speeding through the night bound for Bahrain and Singapore. The warmth and humidity that envelops the traveller at the door of the aircraft on reaching Singapore turned my thoughts back to House 2 at Kew. The moist rich atmosphere here so natural made us feel our trip had really begun.

Our time in Singapore was limited to two hours before the onward flight took us to Darwin. We landed for this refuelling stop at 3 a.m. and found the place really warm, even at this early hour. We were subjected to insecticidal spray from aerosol canisters, had to walk through mats of sterilent and I began to feel as though I must be a carrier of all manner of injurious pests and diseases. However, one realises the disastrous consequences that could befall Australia's fruit or meat industries should noxious pests or diseases be brought into the country in this way.

It was a comparatively short haul to Port Moresby where we landed at 7.50 a.m. Friday, December 7th. The temperature was 82°F. and rising as we were met by Andree Millar, Curator of the Botanic Gardens at the University of Papua, New Guinea, situated on the outskirts of the city.

The relatively rapid transference from cold winter conditions to consistent high temperatures caused our bodies some confusion, and we found that liquids were consumed in quantity. Andree had kindly arranged for us to stay in a flatlet on the Campus, and we spent our first two days looking round the plantings and buildings

of the university. Most of the shrub and tree planting has been carried out during the last five years, and the resulting growth has been excellent. An organic compost used when planting and as a mulch after seemed effective in conserving moisture during the dry season. *Bougainvillea*, *Codiaeum*, *Plumeria* and *Bauhinia* were a few of the subjects used, while some of the native Eucalypts were left as shade trees to nurse the young materials.

We left Moresby on Monday, December 10th, by air to Lae which is situated on the east coast of the island. There is no road system connecting Moresby to Lae due to the rugged and difficult terrain between these two towns. John Womersley, Chief of the Division of Botany, was there to meet us and took us to our university accommodation situated close to the botanic garden. The climate here is not seasonal as it is in the Port of Moresby district, the rainfall being fairly evenly distributed and the vegetation amply reflects this character. Along many of the roadways *Samanea saman*, the rain tree, is planted as a street tree, and many support masses of epiphytes. We learned that these trees were planted after the last war, and they have made magnificent specimens, the epiphytes they accommodate having established themselves as a natural process.

We spent several days in and around Lae making two collecting trips to rainforest a few miles outside the town. The plant material collected being brought after documenting to the Botanic Garden to be packed.

The Garden holds many fine specimen trees, both broad leaf and palm species, while screen houses hold tender orchids, aroids, begonias, etc. The main collection of orchids is grouped in a specially maintained orchid garden, where teak posts are used to give support to *Dendrobium* and other epiphytic species.

An escarpment clothed in lofty rainforest, with a stream at its feet divides the site in half, the higher section containing the screen houses, outbuildings and the modern air conditioned administration building plus herbarium, opened in 1965 by Sir George Taylor, then Director of Kew.

Our two collecting trips were most fruitful as staff at the Botanic Garden were our guides and these trips acquainted us at first hand with forest conditions. The easiest passage was generally to follow a watercourse or native track (where one existed), as the forest was generally too heavy going to be worth while. The number of fern species and quantity of plants generally were less under the thick tree canopy. *Bolbitis*, *Tectaria*, certain Asplenoids and members of the Hymenophyllaceae however did prefer the extra shade, while the majority of Thelyptroids, *Leucostegia*, *Davallia*, *Dennstaedtia* and *Cyathea* spp were among the many genera requiring a little more sunlight for their well being.

Although the petrol restrictions curtailed some of our planned journeys, luck was with us as a party from Lae were to spend a few weeks in the highlands at Mount Giluwe situated 40 or so

miles from Mount Hagen. We accepted an invitation to spend a few days with Jim Croft, Botanist on Mr. Womersley's staff, and four indigenes at their Onim camp which stood c. 7,200 feet at the base of Giluwe. One of Jim's tasks was to check on the *Nothofagus* spp, as there were reports of a considerable percentage dying and the loss of this valuable timber was of some concern.

We flew to Hagen on December 19th, were met by Jim with native driver and transport, in which we all proceeded out to Onim.

We were the first to use the recently constructed hut, which had side-walling of plaited pit-pit and corrugated metal roof, the whole built on wooden piles with the floor almost three feet from the ground.

An audience of scantily clad dark figures peering in the doorway and through the windows watched our labours of screwing together the wooden beds, unpacking from wooden crates the conglomeration of plates, cutlery, glassware and pots and pans, that were from now on to stay at the hut.

Joan and I were to stay here for three days and Jim decided that he would use our second day as an exercise for him, the indigenes plus myself, to see how far we could penetrate the south-east side of Giluwe trying to reach the moss forest which should start at around 9,000 feet. The day dawned fair, as we clambered out from the blankets—night temperatures drop rapidly here, I recorded 44°F. min. for our first night—and after a wash and breakfast we set off leaving Joan to look after the hut and our belongings for the day.

The climb although not steep was tough going, fallen trees blocked the way and the ground was saturated and squelchy. Pteridophytes luxuriated, everywhere there was moss permeated by members of the Hymenophyllaceae, especially on rotten tree bases and fallen branches. Light under the tree canopy was poor making photography difficult, but this very mixture of dappled sunlight and moist atmosphere coupled with high day and low night temperatures produced an ideal environment for the lower plants. *Elaphoglossum*, *Cyathea*, *Marattia*, *Gleichenia*, *Lindsaea* and *Grammitis* were but a few of the genera located. Our prime object of reaching the true moss forest eluded us, for although we attained nearly 9,000 feet a deep valley had to be traversed before we could start climbing again, and this plus the time factor forced us to start retracing our steps. Many plants had to be sorted that evening by the light of oil pressure lamps, before we could grab some sleep and recover from the exertion of that day.

John Fox, an Englishman based at Hagen with the Forestry service, was to collect us the following afternoon and take us back to town, so we assembled our gear in readiness. The plants were placed in large polythene bags for the journey, and a few last minute items were obtained from a giant *Schefflera* which Jim and the others had topped to make herbarium specimens for Lae. Our journey was uneventful except for a stop at Ore village so that we

could see a magnificent waterfall. John had arranged for us to visit Baiyer Sanctuary and have accommodation there for two nights, so the next morning, December 22nd, we bought provisions to take with us as the sanctuary was some 30 miles from Hagen and rather isolated. We took the opportunity that morning of visiting the native market at Hagen, situated close to the centre of town. People with produce buy an area of ground or bench, and the vegetables, fruits, pork, etc., are laid out for sale. Many of the people of this district are primitive, their apparel in many instances comprising a length of loosely woven cloth suspended from a cane belt around their waist and a bunch of leaves—a *Dracaena* species, pushed under the belt—covering their bottoms!

Our transport to Baiyer did not arrive as planned, and my efforts to contact the sanctuary via radio telephone were unsuccessful, so with the help of John Fox we made arrangements to travel in the cab of one of the open-backed trucks they call P.M.V.'s. These are used by the indigenes as buses. I must confess to being a little apprehensive of this journey, because of recent attacks on motorists along this route. However, after much discussion, handshaking and the assurance as to our safety by an indigene local councillor, who wore his silver badge of office pinned very proudly to his shirt, we set off. The drive through the Baiyer gorge is quite spectacular and we reached the sanctuary safely.

The station is situated at some 3,000 feet and is 250 acres in extent controlled by a board of trustees. The aims of the trust are to display New Guinea wildlife in its natural setting, to encourage a conservation attitude among the people of P.N.G. and to provide facilities for scientific research. They now hold at Baiyer part of the late Sir Edward Hallstrom's private collection of Birds of Paradise, as well as tree kangaroos, rodents, possums, cassowaries, reptiles and many other bird species. We spent almost two days there and were made most welcome by Graeme George, the sanctuary Superintendent. On our second evening Mr. George took us to see the cus-cus cages where we were able to view these curious nocturnal marsupials with large eyes and strong tails climbing about their cages.

Christmas Eve saw us back again at Mount Hagen and we spent Christmas Day and Boxing Day at the Kiminiaga hostel, a government-run accommodation building. Our plants collected at Giluwe and Baiyer had to be sorted through daily to avoid sweating, and the bags cleared of excess moisture. Luckily most of the ferns lasted this period very well.

The flight to Lae left Hagen at about 08.30 on the 27th so we were up and ready with our cases and plants early that morning to get transport to the airport. With one stop at Goroka we made Lae by 10 a.m. and set about packing and documenting our plants in order that we should get them on their way to U.K. as quickly as possible. All were boxed and ready by 4 p.m. plus the necessary phytosanitary certificate, enabling us to take them to the air cargo building the next morning.

We flew to Moresby on Sunday 30th where Andree Millar met us once again and drove us to the flat while informing us that a collecting trip to Sogeri had been arranged for the following day.

To reach Sogeri one travels along the roadway following the Laloki river on which the Rouna falls are situated. The water has been harnessed to provide hydro-electric power for the capital and pylons can be seen carrying the power down the valley away from the generators. A stop was made at the falls before we continued our journey to reach the start of the Kokada trail. This former war-time route was made by the Australian forces pushing their way through thick rainforest and razor-back ridges over the Owen Stanley ranges to combat the invading Japanese forces. This spot is 25 miles from Moresby and is marked by a stone pillar and inscription plate.

On again and into the rubber plantations, the *Hevea* covering acres of land either side of the road. Our main collecting was carried out in the Subutana plantation where conditions under the less mature trees prove ideal for many fern species. Thick smothering undergrowth is kept in check allowing the Pteridophytes enough light to develop, while the low growing species are not harmed drastically by the cutting.

The day was very successful with Andree's staff collecting many fine orchids to be established at the university and myself a number of interesting plants for Kew.

New Year's Day we kept free to look around Moresby. Of course, everything was shut! But at least we were able to see the native Koki market, the stilt houses built over the water at Hanuabada and admire the cathedral near Ela Beach with its beautiful mural of indigene art depicted on the concave inner wall of its steeple.

The second half of our tour started on January 2nd. We flew to Brisbane where, as there was no connecting flight to Auckland that day, we spent a few hours looking round the city.

Then on to Auckland where we arrived at 3.30 in the afternoon, and made contact with Miss Marguerite Crookes who was most kind and a great help to us while in the Auckland area. (Miss Crookes revised *Dobbies—New Zealand Ferns*).

The following day saw us on the ferry bound for Rangitoto Island, which is of volcanic origin and situated at the entrance to Auckland harbour. *Cardiomanes reniforme*—the kidney fern, was our prime reason for this excursion and indeed it grew in quantity on the island, in places directly on the black cindery slabs of volcanic ash or on tree boles obtaining shade from the intensity of the sun. *Asplenium flaccidum*, *Tmesipteris* and *Microsorium heterophyllum* were some of the other fern species located, while tea tree—*Leptospermum scoparium*, *Metrosideros excelsa* and *Griselinia lucida* were a few of the shrubby subjects on the island.

The Waitakere ranges were our surroundings on January 5th. The New Zealanders have had the foresight to designate many

areas of native bushland as scenic reserves or National parks and one hopes that these areas can be preserved for very many years in their present unspoilt state. We visited two specific areas, Goodfellows and Walkers bush with Miss Crookes, the latter containing many tree ferns—*Dicksonia fibrosa*, *Cyathea medullaris* and *C. dealbata*. A number of "filmies" were located, mostly luxuriating in the fibrous root masses on the *Dicksonia* stems.

Many items of plant life were again accumulating in polythene bags in our motel room, and as we were to travel to Northland in a day's time we loosely packed two boxes prior to obtaining phytosanitary certificates. These were obtained with little difficulty and we handed in the boxes at Auckland airport, before making the journey to Opononi.

Up before breakfast and walking along the shore of Hokianga harbour the next morning we turned round on hearing calling to view a sprightly figure in wellington boots, large straw hat and open shirt. Joe Rawlings, a retired forestry officer and field botanist, whom I had hoped to contact was here as promised. Joe's knowledge of the flora of Waipoua forest was marvellous, and I was able to locate and collect many species which I may otherwise have missed.

Three days spent in the forest area with its massive Kauri trees passed all too quickly, but we had seen and acquired some treasures including *Schizaea dichotoma*, *S. fistulosa*, *Grammitis bilardieri*, *Loxoma* and others.

Highway routes 12 and 1 to Auckland had to be retraced on the 11th and we were pleased of a good night's rest before our flight to Christchurch.

It is a comparatively short hop by air to the Cathedral City and we had panoramic views of Cook Strait, Farewell Spit and the flat expanse of the Canterbury Plains.

Dr. Brownlie of Christchurch University with whom I had corresponded before our visit, had left literature and maps for us at the hire car desk in the airport terminal and we set off over the central divide to Greymouth on the west coast. Flat country famous for its agriculture was traversed along route 73, the ground rising almost imperceptibly towards the steep incline of Porters Pass. The scenery became very rugged, snow still capping the highest peaks although it was now midsummer. We pushed on to the little township of Arthurs Pass situated amongst towering hillsides. *Nothofagus*, the southern beech, clothed the slopes in many places forming a vast expanse of blueish green. Much of this area is designated National park, and the winding roadway over the pass and down the Otira gorge is most spectacular. Greymouth was reached about 5 p.m., our accommodation sorted out for the two nights, and after a bite to eat we met up with Dr. Brownlie and his wife.

Garth, Joan and I drove to the area round Kumara the next day to see the local bush. Kumara is one of the settlements which

expanded rapidly during the goldrush days and one area we investigated which had been worked for gold was most interesting. Loosely stacked heaps of rocks or tailings left after sluicing operations provided excellent habitats for members of the Hymenophyllaceae and others such as *Phymatodes*, *Polystichum* and the scrambling *Pyrrosia serpens*. This whole area although extensively worked is being re-colonised by *Leptospermum*, gorse, *Coriaria* and others.

Our time with Garth Brownlie and his family passed quickly, his information on the flora of Westland was of great value and we were much indebted to him for this part of our trip.

From Greymouth we travelled down the west coast to Franz Josef. Dr. Brownlie accompanying us as our guide. We made a stop at Lake lanthe, one of several stretches of water along this route.

The glacier at Franz Josef was of course our first visit the next day, and we found the contrast quite amazing, from lush subtropical vegetation, to barren moraine and chilling temperatures near the ice mass.

The filmies were terrific in this part of Westland, As one walked along tracks through the forest one saw whole branches and tree trunks clothed in dripping emerald fronds of one or more *Hymenophyllum* species.

Rain deluged on the morning of the 16th so we decided to drive the 15 miles to Fox glacier and township. Luckily it ceased enough for us to take some photos of the glacier and surrounding landscape, after which we visited the National park information centre in the township.

An area of bush containing glow-worms was investigated off the road to the glacier, but of course not much could be seen in daytime, so we decided to return after dark to see the creatures at work. Dr. Brownlie's two daughters accompanied us and the effort was well repaid as not only did we see the larvae but also many opossums feeding on the roadside herbage.

The last day spent in Westland saw us on a trek to Lake Wombat, situated in thick bush two hours' walk from Franz Josef township. *Leptopteris* were here in plenty, both *L. superba* and *L. hymenophylloides*, although the former seemed more plentiful. A fitting subject to record as the last number collected on the tour.

Making an early start on the 18th we motored back to Christchurch, spending a day there at the Botanic Garden and obtaining our last phytosanitary certificate, before flying back to Auckland. Here we packed and despatched our last box of plant material to Kew, before we ourselves departed that evening for London via Honolulu and Los Angeles.

JOHN WOODHAMS.

## ANNUAL DINNER, 1974

The Annual Dinner of the Kew Guild was held on the 22nd May at the Refectory, Imperial College, Exhibition Road, South Kensington. One hundred and sixty-five persons attended with Mr. Noël J. Prockter (President).

The menu consisted of—Consommé Julienne; Oeufs aux Aubergines; Grilled Entrecôte Steak Garni, French Beans a la Fermière, Stuffed Tomato, New Potatoes with Parsley; Meringue Glacée and Coffee.

After the toast to the Queen, Mr. C. E. Cherry rose to propose the toast "The President". After accounting for our President's career the proposer gave some interesting and amusing stories of life at Kew when he was in "digs" with Noël. Mr. Cherry gave an account of the President's literary career—his long experience and work with *Amateur Gardening* and his books, including his latest one—*Climbing and Screening Plants*.

The President replied first with some account of his studentship at Kew and of his experience with the great personalities of those times including the late W. J. Bean. Before proposing the toast "The Kew Guild" the President made a lively and interesting speech with reference to his experiences in the world of publication. He thanked the Committee for their work during the year and in particular Mr. and Mrs. J. Woodhams who had done so much to make the Annual Dinner and Tea a success.

The Toast "Our Guests" was very ably and confidently proposed by Mr. Kenwyn Pearson, a Student Gardener. Mrs. Frances Perry, an old friend of our President, responded. Mrs. Perry emphasised the point that it was a privilege to be invited to the Dinner and she confided that it was always her ambition to enter Kew as a Student Gardener—a wish that was never fulfilled.

As the speeches and dinner ended the members continued with a very pleasant informal evening.

## ANNUAL GENERAL MEETING OF THE KEW GUILD, 1974

46, 45, 47 . . . The number of members at the A.G.M. has been remarkably consistent in recent years, yet seen from the platform, many of those attending in 1974 were not present in the previous year. Clearly, a larger percentage of the membership could be present on this annual occasion. Will the number of people attending the next A.G.M. follow the same pattern or could *you* be one of those members helping to fill the Jodrell Lecture Theatre to capacity this coming Autumn? It was there that, on

Saturday, 21st September, 1974, 47 members met and the President, Mr. N. J. Prockter, took the chair, accompanied on the platform by the Hon. Treasurer, Mr. J. Hale, the Hon. Editor, Mr. G. E. Brown, and the Hon. Assistant Secretary, Mr. M. J. S. Sands.

The President welcomed members to the meeting, especially greeting Mr. G. R. Groves (President-Elect) who had managed to come from Bermuda where he is Director of the Botanic Gardens. All those present then stood in tribute to Kewites who had died since the last Annual General Meeting: L. G. Atkins (1931), R. Badgery (1906), L. Buss (1924), L. W. Gardner (1913), Dr. F. N. Howes (1966), T. Lomas (1931), I. Manders (1972), H. S. Marshall (retired as Librarian, 1961), G. H. Pring (1906, C. E. W. Shambrook (1928), and F. H. Wright (1933).

*Apologies for absence* had been received from several members including the Hon. Secretary, Mr. F. N. Hepper. The *Minutes* of the last A.G.M. were adopted and there were no matters arising.

The Committee then reported as follows:—

The Hon. Treasurer referred to the published *accounts* for the year ended 31st December, 1973, and indicated particularly the excess of income over expenditure of £187.92. This was greater than in the previous year with interest on the Charities Investment Fund increased to £220.09. Presenting the half-yearly account for the period ended 30th June, 1974, he drew attention to the large figure of £1,552 in the deposit account and explained that over £700 had still to be drawn, mainly to cover the increased cost of the *Journal* which would be £170 more than in 1973. In detailing expenditure, important items to note were the £38 loss on the Dinner, covered in part by the profit of the previous year and £100 allocated as a working fund to the Sub-Committee responsible for developing the new Award Scheme, discussed later in the meeting. The accounts were formally adopted.

Mr. Pattison reported that the *sale of ties, scarves and badges* was markedly less than in the previous year with, for example, only one tie compared with 20 being sold. As the cost of hand-woven badges had increased considerably and with few remaining in stock, less expensive silk ones would be acquired for sale in future.

The Hon. Treasurer reported that the total *membership*, 725, represented a decrease from the previous year's total of 737. However, those paying by Banker's Standing Orders had increased from 301 to 330 after reminders had been despatched. There were 61 Deeds of Covenant and during the current year there were 10 new members including four students. There had been a fall in total from 36 to 22 student members. Referring to Life Membership, Mr. Hale reported that, as agreed at the last A.G.M., the matter had been considered during the year, but the committee had decided not to reinstate rule 8. However, the President, being a Life Member, said he had recently paid to the Guild an amount

equivalent to the full subscriptions he would have paid as an ordinary member since leaving Kew. Hopefully, this would create a precedent which other life members might feel they could follow. Mr. Hale was thanked by the meeting for his work as President.

The Hon. Editor, reporting on the *Journal*, apologised for the delay in publication, resulting from printing difficulties earlier in the year. He briefly summarised the contents, indicating that some reduction in size by the exclusion of certain articles, had been necessary to maintain production at a reasonable price. Postage alone had cost £50. Mr. Brown, retiring as Editor, then gave details of the Editorial Sub-committee that would assist his successor. It was intended that Mr. Brown should continue to prepare obituaries, Mr. Hart receive and edit articles and Mr. Sands accumulate and edit news of Kewites. Student reports would be the responsibility of their representative. The Hon. Assistant Secretary reported that Mr. Hepper was acting as editor for the Wakehurst Place booklet, which would be free to Guild members as a Supplement to the *Journal*. Material was being assembled and the Director, who was contributing an introduction, had agreed to copies being on sale to the public at both Wakehurst and Kew. Unanimous and enthusiastic support was then given to a vote of thanks proposed by the President to Mr. Brown for his many years of hard work as Editor of the *Journal*.

It was then reported that during the year, 13 photographs including one of the Bexley Floral Clock, had been added to the *collection of photographs* now the responsibility of Mr. Rule. A selection from the collection had been displayed at the Annual Dinner. It was agreed that the old Guild emblem should be transferred from the Students' Common Room to the Herbarium to be kept with the photographic collection.

A full account of the *dinner* appears on page 322 but it may be noted that it had been a most successful occasion despite the loss of £38 because of an unexpected increase in the percentage required by the Imperial College. This would almost certainly result in ticket prices for the next dinner having to be £3 or more. Mr. Woodhams was thanked for his work in once again preparing for the event.

In the absence of Mr. Rawlings, who, as a Vice-President, had represented the Guild at the Students' Prize Day, Mr. A. Hart reported briefly on the prize winners and the speech by Mr. C. Tandy in which he considered the future role of the land-based disciplines. The speech is on page 296. Mr. Pearson, Speaking for the Students' Union, then formally registered disapproval of the manner in which Guild Membership had been encouraged on Prize Day, and after a general discussion of the students' requirements in relation to the Guild, it was recommended that they should pursue the matter within the Union and express their views via their representative on the Guild Committee.

*Retiring members of the Committee were as follows:* Messrs. A. P. Dunball, D. R. Hunt, H. J. S. Kruger, J. A. E. Whitehall and S. Robbins with Mr. J. Keesing as Auditor. The President thanked the retiring members and the Officers for their work in the past year. Mr. N. J. Prockter and Mr. S. W. Rawlings also completed their term as President and Vice-President respectively. Mr. Prockter, however, continued in the chair for the remainder of the meeting.

*Election of Officers, Members of Committee and Auditor.* A ballot was held to elect from three nominations the two new "home" members of the Committee. Mrs. M. J. Griffin (Brighton) and Mr. P. F. McCormack (Liverpool) were duly chosen and the remaining Committee members and the Officers were elected *en bloc*, their names appearing on page 291 at the beginning of this *Journal*. It was agreed that, in future, printed nominations on the agenda sheet would be followed by a brief biographical note as well as the town or country of the nominee.

*The Award Scheme of the Kew Guild.* Mr. Prockter first read to the meeting his letter of introduction to the Scheme which inadvertently had been omitted from the *Journal*. The main proposals of the Award Scheme Sub-Committee were outlined and the Assistant Secretary then read comments in favour of the scheme from Mr. Brenan (President of the Guild 1972-73), Mr. J. O. Taylor (New Zealand) and from Mr. Hepper (Hon. Secretary). Self-financing from interest (requiring adequate capital), clarification and limitation of objectives and an approach to horticultural firms, were offered as desirable provisos. In addition a continuing connection with horticulture or botany and two years' membership of the Guild (one year for students on the course) were regarded as important conditions of eligibility for an award. After discussion it was agreed that these proposals should be incorporated into the running of the Scheme. Mr. Cherry suggested that the Scheme should "make haste slowly", thus endorsing the view that sufficient interest on capital should first be accrued before any awards were made. He went on, however, to propose (seconded by Mr. Stock and agreed unanimously) that the Award Scheme be approved by the A.G.M.

*Report on the Students' Accommodation.* The Assistant Secretary reported that work was about to begin on the conversion of Gumley Cottage into accommodation for 9-10 students. It was hoped that the rooms would be available for occupation by January 1975. However, the Director had assured the Guild that anything that could be done in the way of a Housing Association as originally envisaged would still be welcome, since the availability of accommodation was decreasing and its cost was going beyond the resources of the students. The Students' Union had also been pursuing the matter.

Before the close of the meeting, Mr. Stock questioned the size and constitution of the Committee and it was agreed that the matter would be considered further if there was sufficient time in Committee during the year.

In conclusion a vote of thanks to the retiring President, Mr. Prockter, given by Mr. Butcher was unanimously supported.

Shortly after the meeting, members and relatives met for tea in the services block of the Lower Nursery.

M. J. S. SANDS. *Hon. Asst. Secretary.*

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### **MICHAEL J. DAWES, OUR NEW HONORARY EDITOR**

Michael was born in 1941 in Northampton, and is thus the youngest ever editor of the *Journal of the Kew Guild*. He has always been passionately interested in plants, and on leaving Trinity School, Northampton, worked at St. Andrew's Hospital, Northampton (perhaps remembered by older Guild members for the exhibitions of vegetables sent to R.H.S. by S. M. Gault). After two years he joined the County Borough of Northampton Parks Department, as an apprentice. On completion of his apprenticeship he moved to Brighton Parks Department, working in the Royal Pavilion Gardens and Stanmer Nursery before entering Kew in 1964.

On completion of his studentship, when he won the Matilda Smith Prize for Practical Horticulture, he became foreman in the Arboretum Nursery in 1967. Whilst there he raised material of *Populus grandidentata* and *P. tremuloides* (see *Journal of the Kew Guild*, 1967, p 784) and began lecturing and writing.

He was responsible for the writing of the major part of the new index system in the Arboretum, and over a period of three years checked most of the plants of the woody plant collections. In 1970 under the direction of the then Deputy Curator, J. B. Simmons (now Curator), he established the Technical Services Department to oversee the indexes at Kew, prepare new works and landscape plans, and educational labels.

He left Kew in October 1974 to take up a position as Projects Officer (Horticulture) with the London Borough of Hammersmith, where he is particularly responsible for the re-development of the gardens of Fulham Palace, including a small educational botanic garden and for floral decorations, both at municipal functions and at Royal Horticultural Society flower shows.

To date he has given over 150 lectures mostly on the history of Kew, and written over 20,000 words in articles. He is at the moment engaged in a survey of the genus *Aesculus*.

## THE BERMUDA BOTANICAL GARDENS

The birthday of the Bermuda Botanical Gardens may be taken as the 29th August, 1898, for it was on that day, according to the records, that the Board of Agriculture (now the Board of Works and Agriculture) assumed possession of the land, then known as the Public Garden. The area of the Garden at that time was barely ten acres, but, by the acquisition of part of the Montrose Property in 1921, the total area was nearly doubled. In 1962, however, three acres of the Gardens were taken for the extension of the King Edward VII Memorial Hospital. This loss, fortunately, was repaired in 1965 when the Government very wisely purchased the adjoining Camden Property for the extension of the Botanical Gardens, thus increasing the acreage of the Gardens to their present size of approximately 36 acres.

The name "Public Garden" was changed to the "Agricultural Station" when the Department of Agriculture was re-organised in 1912. This new name was appropriate in those days because of the importance of agriculture to the economy of the Colony. However, times change. The tourist trade began to develop and ornamental horticulture was seen to be essential to the welfare of Bermuda. Many changes were therefore made in the Gardens by the various Directors and Horticulturists. The greatest change began in 1948 when the cattle which had customarily been kept at the Agricultural Station were sold. This immediately opened up many new areas for development. It then became apparent that the name "Agricultural Station" no longer described the function of the establishment. A third and more appropriate name was given the Gardens in April 1958 when the then Governor of Bermuda, Lt.-General Sir John D. Woodall, K.C.M.G., K.B.E., C.B., M.C., renamed the Station "The Bermuda Botanical Gardens".

These Gardens are maintained by the Bermuda Government through the Department of Agriculture and Fisheries, whose Director is responsible for their management. The head office of the Department of Agriculture and Fisheries is situated in the Gardens, likewise the official residence of the Director of the Department. Other buildings which are seen in the Gardens include the Horticultural Hall, which is used for lectures, demonstrations and horticultural shows and also buildings for use by the Agricultural Exhibition, which is an annual function held in the grounds in the month of April. In the new section of the Gardens, the buildings include a restaurant, a small museum and the offices of the Botanist and Conservation Officer.

There are four main entrances to the Gardens; two from the South Shore Road, one entering from the west via Point Finger Road and one from the north off Berry Hill Road. The main drive is so arranged to enable motor traffic to make a circular tour. Plant lovers, however, will wish to put their cars in one of the two car parks and walk to enjoy and appreciate the wealth of plant material which is found here, for these Gardens have been gradually

embellished with plants from many regions of the world. In one small section, near the Director's house, will be found *Delonix regia* from Madagascar; *Casuarina equisetifolia*, the Australian Whistling Pine; *Ficus elastica*, from the Himalayas; *Phoenix canariensis* from the Canary Islands; *Plantanus x hispanica*, the London Plane and *Cinnamomom camphora*, the camphor tree of Formosa. In the same area will also be found representatives from the West Indies, China and the Mediterranean Region.

G. R. Groves.

## THE PROPAGATION OF ENGLISH ELMS

From background knowledge gained at the Forestry Commission's Research Station at Alice Holt in October 1973, it was decided to propagate the native Elms collected in Summer 1974 by the following methods:—

1. *Soft wood cuttings.* 50-75mm long—i.e. 2-3 nodes and 2-3 leaves per cutting. Obtained from younger branches on mature trees and from sucker growths on tree trunks.

2. *Grafting* young buds on to stocks of *Ulmus glabra* established in plastic pots. The technique of chip-budding was chosen as it enabled a far greater cambial contact to be made, than the traditional T-budding method. (See *R.H.S. Journal*. Vol. XCIX. Part 5—pages 201-202).

3. *Seed.* Elm seed when collected fresh and sown within 24-48 hours will give a good germination percentage.

### *Treatment of Soft-wood Cuttings*

Material was taken from the youngest branches using secateurs or a 10m extendable pole secateurs. The cutting material was then cut up further, into lengths 200-300mm long, keeping a portion of the older wood.

Cuttings were sorted, keeping only the material with young growth and healthy leaves. They were bundled into handfuls with approximately 90-100 cuttings per bundle, and the old wood was covered with moss. The whole was put into a plastic bag held tight with an elastic band. Three hundred cuttings of each species were collected and put into a slightly blown up plastic bag (moistened beforehand) and this too was closed by an elastic band. The cuttings in their plastic bags were then put into polystyrene lined cardboard boxes to keep them as cool as possible. Each individual bundle of cutting material was labelled with the collection numbers.

On arrival at Kew the boxes of cuttings were stored in a fridge at 37°F. The cutting material was removed as required, made into 50-75mm lengths with 1-3 leaves, depending on the species—e.g. *Ulmus glabra* and hybrids (1 large leaf), *Ulmus plottii* and hybrids

(3 small leaves). The cuttings were dipped in I.B.A. Seradix 1 with 40 cuttings per 75 x 200 x 325mm tray, placed in a mixture of 50 per cent peat (moist, medium grade) and 50 per cent coarse sand. They were inserted 12mm deep in the trays, which were placed on a mist bench with heating cables giving a bottom heat of 75°F. The mist bench was covered with a polythene sheet held up with wire hoops to maintain high humidity. The first batch of cuttings were collected on the 13th June, 1974, and inserted on 14th June. Out of the twenty types collected that day, eight have rooted and survived. The second batch of cuttings were collected from the 16th June to 18th June, 1974. Out of the twenty-eight batches collected, twenty-one have rooted and survived.

Material collected on the 16th July-17th July was collected as chip-bud material, but some of the material was made into cuttings—these have all rooted and survived.

Most of the cuttings were potted up on 3rd September, 1974, in 75mm pots in a general compost mix. Each pot was individually labelled—using "Dymo" tape stuck on to the outside of the pot to prevent mixing of the types. The pots were placed on the mist bench with the mist turned off and the polythene cover still on, to retain high humidity. On the 17th September, 1974, the Mercury Vapour lamps were turned on; these lights remained on for eight hours each day, and supplemented the natural day-length to promote the maximum amount of growth—House temperature being an average of 65°F. On 15th October, 1974, the cuttings which had the most growth were transferred to a cooler house (maximum temperature 55°F.) but still under M.V. lamps. To harden off the cuttings and make them go dormant the lights were turned off on 7th November, 1974.

All of the cuttings were placed in a cold house on the 22nd December, including those from the propagation house and cooler house, to encourage the plants to go dormant as soon as possible. There is no general pattern to be seen between the different species, growth from cuttings varies enormously from 25-50mm in some cases. At least eleven of the batches have only 1-2 cuttings alive and many of these have not produced enough growth to sustain themselves during January to March period.

### *Grafting*

The material collected on 16th and 17th July was too hard to be made into cuttings so it was decided to chip-bud them on to the *Ulmus glabra* stocks—three buds per stock. The budding was done on 19th July, 1974, in the open. When the buds had calloused sufficiently, the polythene wrapping was removed (18th October, 1974). Large fat buds were not completely covered, whereas thin ones were.

It is too early to say whether these have been successful; however, all of the buds have taken and some have produced a few inches of growth.

### Seed

Only one Elm was collected as seed; this was collected on the 17th June and sown on the 20th June in temperature of 65°F. and germinated on the 8th July, 1974. Masses of seed were collected, and twenty-six healthy plants resulted with excellent growth and vigour. These were not given any supplementary light, and growth varied from 75-450mm. These too, were placed in a cold house on 22nd December for a final hardening off.

### Conclusion

On 22nd December, 67 per cent of the total cuttings were still surviving, but the real test will be during the January-March period, when perhaps half of the rooted cuttings will fail, due to not enough growth being made after the cuttings were potted.

### After Treatment

In mid March to April the cuttings which start into growth and are sufficiently large, will be planted in nursery beds outside, to get as much growth as possible. The small cuttings which survive will be potted on to encourage growth from which cuttings will be taken to build up the stocks to at least ten plants.

### Chip-budded Material

When this comes into growth in Spring, it will be stripped for soft-wood cuttings which will then be rooted and the old root stock and scion will be thrown away.

### Further Notes

Many of the cuttings failed to root, as only poor material was available from the trees which had been damaged by herbicide sprays or mechanical damage to the leaves, this was then accentuated when the cuttings were put on the mist bench under high humidity. Many of the *Ulmus* species have coarse leaves with fine hairs which encourage mist water to remain on the leaves and speeds up rooting. Fifty clones of English *Ulmus spp.* propagated.

S. HENCHIE.

## CONSERVING THE ELMS OF ENGLAND

As readers of this Journal will no doubt be aware, the fungal disease *Ceratocystis ulmi*, known popularly as Dutch Elm Disease, is infecting and killing many of the Elm trees growing in our hedgerows, copses, botanic gardens, parks and private gardens. The disease can become established in Elms of many species and varieties, although some are less susceptible than others. Throughout the country can be seen many dead or partially infected trees which will die the following season if re-infected.

Although protective measures can be taken (e.g. by injecting Lactic Acid) to prevent the disease from affecting trees, such work is expensive, both in terms of money and man hours, and it is

obviously impossible to treat all the elms of rural areas. Important trees in towns and botanic gardens can be, and are, so treated with considerable success, but the ultimate effect of the treatment itself is not yet certain, and the physical damage caused during such treatment may in itself shorten the life of a tree.

With these factors in mind, and with the background knowledge of work carried out on *Ulmus* propagation by the Forestry Commission, it was decided that members of Kew Staff—J. S. Keesing (recorder, photographer), S. Henchie (Gardens Supervisor) and Propagators J. Cox and P. Tindley, with Dr. R. Melville, an authority on the taxonomy of elms, as advisor, should collect propagation material from *Ulmus* species and hybrids.

Three excursions were arranged during June and July 1974, and during these, material from sixty-one different elms was collected. The first excursion was a one-day journey into Hertfordshire and Essex, where the incidence of the disease was generally light, but where considerable spray damage to hedgerow trees was unfortunately evident. Collections were made from twenty trees selected for habit, appearance and various features of possible ornamental importance or botanical significance. The second excursion was of two and a half days, during which the party travelled through Nottinghamshire, Lincolnshire, Leicestershire and Northamptonshire, and collected twenty-eight batches. The third resulted in a further thirteen collections from trees in Shropshire, Herefordshire and Gloucestershire.

The following list, which is not complete, shows the range of species, etc., collected:—

- Ulmus carpinifolia*
- Ulmus coritana* var. *angustifolia*
- Ulmus coritana* var. *coritana*
- Ulmus glabra*
- Ulmus glabra* var. *angustifolia*
- Ulmus plotii*

Various simple and multiple hybrids were also collected of *Ulmus plotii*, *coritana*, *glabra*, *carpinifolia* and *procera*, such as *Ulmus glabra* x *carpinifolia* x *plotii*, *Ulmus glabra* x *plotii*, *Ulmus procera* x *coritana*, etc.

In each case, apart from the material taken for propagation, herbarium specimens were prepared, notes made of estimated height, proportions, appearance and condition, and 35mm transparencies taken for record of habit, etc. (except in a few situations where no useful photograph could be taken). Grid references and exact locations were recorded and each tree labelled for any future necessary reference.

J. S. KEESING.

## NOTES FROM KEW FOR 1974

The garden area at the front of Kew Palace, formerly *Taxus baccata* 'Fastigiata' and *Erica carnea* c'vs has been re-designed and re-constructed. Parterres of *Anthemis nobilis* are surrounded by low hedges of *Buxus sempervirens* var *suffruticosa*, and the approach to the Palace is now of York stone flags in place of the former tarmac. Lawns and young plants of *Taxus baccata* 'Fastigiata' frame the building. At the rear of the Palace the ramp up the mound has been surfaced with granite setts, and the hoggin path under the pleached *Carpinus betulus* has been replaced with York stone flags.

Following research by Dr. R. Melville, *Cestrum psittacinum* grown for many years in the Temperate Department has been shown to be the type of the species. The plant is not known in the wild, and is possibly extinct apart from the plant at Kew.

*Leucadendron modestum* (Proteaceae) has flowered in the Temperate Department this year, providing further evidence that this family is being grown more successfully than in the past.

During February heavy gales took their toll of mature trees in the Gardens. The most unfortunate loss was one of the specimen *Cedrus libani*, planted in 1761 near the Pagoda. The tree was found to be badly rotted at the base, and was the home of an extensive colony of honey bees.

The heaviest ever consignment of seeds received at Kew arrived during March en route from the Ivory Coast to Malaysia—987 kilos of germinating coconut seeds (almost one ton!). Each seed was examined for plant health before onward despatch.

During Easter a survey of visitors to Kew was conducted. Over 1,500 questionnaires were completed, and over 6,000 people interviewed. The aim was to find out how visitors had travelled to Kew, why they had come, from where they had come, and what facilities they expected to find.

Renovation of the less formal lawns at Kew is now in process. Many areas have not been fully maintained in the past due to other heavy pressures. Areas of severe compaction and surface matting, particularly areas near the lake and in the vistas are being harrowed, spiked and top-dressed with organic fertilisers. If the expected improvements are achieved the programme will be extended.

An experimental deep freeze unit has been installed in House 21B (Melon yard). It is filled with pans of High Alpine *Pinguicula* spp. The cold root conditions required by these plants at last being given, the plants established quickly and easily. *P. grandiflora* var *rosea* and *P. leptoceras* have both flowered well, and it is hoped that the unit will enable these tricky plants to be overwintered more easily. The air temperature fluctuates between 2 and 15° C., and the soil is frozen solidly at 1½" below the surface.

Kew Palace has been re-decorated and refurnished. Elegant wall-papers of the period have been used, and the house now gives a good impression of life at Kew in the late 18th century when George III and his Consort lived here.

Seed of *Hibiscadelphus giffardianus*, an Hawaiian endemic now extinct at its native station, but maintained in cultivation, has germinated at Kew and is responding well. The Kew plants will be used for stock increase prior to distribution, and for scientific study.

The Royal Botanic Gardens, Kew, and Wakehurst Place were awarded a gold medal by Royal Horticultural Society on June 10th for an exhibit of *Abies* and *Picea* material in flower and cone.

Two new glasshouses have been erected in the Melon Yard following the demolition of old houses and sheds in the north-west corner. The new structures are of aluminium, glazed to ground level with "Stippolyte" and are fully automated. They will be used by the Jodrell Laboratory for experimental purposes, and complete Phase I of the rebuilding of the Melon Yard.

A new block for staff accommodation has been provided in the stable yard. There are new messrooms, changing rooms and toilets, and offices. The new block is sited centrally in the yard, east of the Arboretum Nursery, and will enable the old accommodation ranges to be modified or removed as required.

The old Ferneries potting shed has been rebuilt and new staff accommodation provided in a separate, linked block.

King William's Temple, the Temple of Aeolus and No. 1 House, three of the most important stone buildings at Kew, and No. 1 Museum have all been scrubbed down to reveal the true colours of the stone and brickwork after being covered for many years by layers of London grime.

*Rhododendron kyawii*, collected by the late Frank Kingdon-Ward, flowered in the Temperate House in August. This is a first record of the plant flowering at Kew.

Dutch elm disease struck Kew hard, with the loss of several mature *Ulmus procera* on the Orangery lawn. However, no exotic species have been lost to date and it is hoped that the injection programme will preserve the collection.

A new site for the *Buddleja* collection has been made opposite the large *Quercus cerris* on the Broad Walk. This planting will enhance the lawn of No. 15 House, with the pale misty grey, mauve and white spikes of the flowers. The *Escallonia* collection, which is also now in this area, near the Ice House mound, has been extended. This is part of the policy of using small collections of summer flowering shrubs in the north end of the Gardens to extend the colour interest and release areas in the south of the Gardens for the expansion of other collections. The new shrubby Oleaceae collection to the west of House 15 has also been extended, and is now almost complete.

The new layout of grass beds, called the 'Grass Garden', is complete. The 'Sower' forms the focal point to the formal layout, which centres on a pool for aquatic species. Educational labels will be put up at a later date to explain the importance of the family to man.

The building of a new gate box at Victoria Gate has given the chance to make the entrance safer for summer visitors, who have often tailed back in their queues to the zebra crossing. The box has been brought further into the Gardens, and a reception area provided, allowing visitors to gather inside the Gardens.

The planting of *Berberis julianae* formerly at the entrance to the Alpine Yard has been removed and the area paved with brick. A large stone trough stored in the Alpine Yard since 1961 has been put on the area, and planted with choice Alpine plants.

The Temperate House is now entirely closed to the public prior to restoration work, which, it is hoped, will soon begin.

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## PLANTS FROM KEW TO WHICH AWARDS WERE MADE, 1974

*Abies borisii-regis* A.M.

*Abies spectabilis* A.M.

*Abies veitchii* A.M.

*Berberis x stenophylla* 'Semperflorens' A.M.

*Billbergia pyramidalis* var *pyramidalis* A.M.

*Cytisus* 'Lena' F.C.C.

*Grevillea sulphurea* A.M.

*Hedychium densiflorum* (K.W. 17875) A.M.

*Hydrangea hetromalla* A.M.

*Larix griffithiana* A.M.

*Nepenthes x paradisae* A.M.

*Nepenthes rafflesiana* F.C.C.

*Picea jezoensis* var *hondoensis* A.M.

*Picea likiangensis* A.M.

*Rhododendron arboreum* forma *roseum* F.C.C.

*Rhododendron degronianum* A.M.

## PLANTS IN FLOWER AT KEW ON 31st DECEMBER, 1974

On 31st December each year it is usually possible to make a note of each species in flower at Kew. However, on 31st December, 1974, this was quite impractical! Why?—because lack of frost meant that the summer flowers were still hanging on, the expected winter-flowering species were at their best *and* the spring flowers were already bursting.

Of the summer flowers there were of course roses and chrysanthus, but also *Ceanothus*, *Hebe*, calendulas and dozens of rock garden plants with a few flowers on rather straggly stems. Fuchsias were putting on new foliage and *Tropaeolum majus* was still in leaf. Even the weeds were flowering, such as sow thistle and dandelion, while daisies in profusion speckled the Herbarium meadow with white. The mild autumn seemed to provide the birds with ample food so that their secondary supply of berries on *Pyracantha* and holly were neglected.

Actually there were a couple of sharp frosts at the beginning of October, but not everywhere, and hardly anything lower than freezing point up to the end of the year. The October frost probably was sufficient to activate buds and bulbs, some of which were out by Christmas. The bulb garden was gay with patches of *Iris histrioides*, *I. danfordiae* and *Scilla mischtschenkoana*, as well as large clumps of the pink *Schizostylis* 'Viscountess Byng' in continuous flower for months past.

The winter-flowering species such as *Prunus subhirtella* var. *autumnalis* and *Viburnum farreri* were being overtaken by snowdrops, *Anemone blanda* and *Helleborus orientalis* with the first daffodil appearing in flower near the Main Gate on 3rd January 1975. What a curious season up to the time of writing!

F. N. Hepper.

## A BRIEF HISTORY OF THE LAKES AT KEW

The first Lake at Kew was formed for George III from a series of ponds, and occupied the site of the Palm House extending to the west of it beyond the Temple of Bellona on the lowest ground in the parish of Kew. Peter Burrell shows it on his Plan of the Royal Manor of Richmond of 1771. It was filled up in 1814, and all that remains of it today is the Pond in front of the Palm House.

The present Lake was designed by William Andrews Nesfield (1793-1881), a top ranking landscape gardener of the 19th century. Nesfield gave up his work as a water-colour artist in order to become a landscape gardener, and in 1845 his advice was sought by Sir William Hooker who was then developing the Pleasure Grounds, which had recently been under the supervision of William Townsend Aiton, and included the area now occupied by the present

Lake. This site was first excavated for gravel, and the workings were not developed into a lake until 1856. Work continued until 1870 when Sir Joseph Hooker completed it 'in its essential features'.

Nesfield was also responsible for the Broad Walk, Pagoda and Sion Vistas. It is interesting to note that the Kew Lodges (or houses near the entrance gates) were designed by his eldest son, William Eden Nesfield (1835-1888).

The Lake is fed directly from the Thames, which is tidal as far as Teddington Lock, and it is therefore probable that saline conditions are always present to a certain extent. An investigation of the salinity of the Lake after the hot summer of 1921 by Dr. W. B. Turrill proved that its water was ten times as salty as that of the nearby Thames. Turrill concluded that the high salinity was directly attributable to drought, both by reduction of the water flow from the Thames basin through the river, and on account of the consequently greater volume of salt water that flowed up with the tides. A further factor was the increased evaporation from the Lake during the abnormally hot weather.

John L. Gilbert.

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## STUDENTS' UNION REPORT

It is the intention to report on the period from the time when the former President, Kenwyn Pearson, left off last year (1973) to the present (December, 1974).

Socially, very little took place in the early part of the year due to the fuel crisis. Our first major event was a Buffet-Dance held in Bull Hotel, East Sheen. On this occasion we joined forces with the Kew Club and the Mutual Improvement Society.

In early March the Photographic Competition was held. The first round is an internal affair, held between students and staff. From the transparencies entered, 45 were selected for the next round in which Edinburgh and Wisley Gardens took part. Once again Kew managed to gain the most points.

During May we took part in the Round Bredon Race, organised by Pershore College, and followed that evening by a dance, as there was after the Kew Relay Race which took place a week later. We held our Dance at the Maria Grey College, Twickenham.

In June, the Royal Opera House, Covent Garden, was visited by a small party for a performance of Bizet's "Carmen". Later in the year a similar outing was arranged to see "La Bohème". It is hoped to continue with this venture next year.

August 17th culminated many months of hard work when the 1974 fête was held on Kew Green. Fortunately we were blessed with one of the few fine Saturdays of the year. Work started at 8.00 a.m. that morning and did not cease until dusk the same evening. By that time we were all ready to collapse into bed (where I would have liked to stay for a week!—Pres.) Our grateful thanks to all who helped to make the event such a success. The result enabled us to pass £100 each to the Gardeners' Benevolent Fund and to Cancer Research.

Shortly after the fête I was elected to the office of President at the A.G.M. of the Students' Union, and Chris Bowles was elected Hon. Secretary, and at the same time all the other posts within the union were filled.

Two parties were arranged in September, one to say farewell to the Third Year students; the other to welcome the new students. This year twenty-five students have embarked on the course; an increase of ten on last year. Once again alterations are being made in the course to keep apace of the times.

Between the two parties Presentation Day was held and I am pleased to say that the Union was able to award three life memberships to students departing, for their services during their stay at Kew. The awards went to Messrs. Dave Perham, Louis Phillibert and Tom Watt.

The annual Clog and Apron race was held on 21st October, to be followed two days later by the Round the Gardens race.

The task of finding accommodation for the new students presented the same problems again. We are pleased, however, that work should be started before the New Year on the conversion of Gumley Cottage for use as a Students' Hostel. It is hoped to be able to house nine students, each with individual rooms. On the ground floor there will be a kitchen and dining room, and a spacious lounge in which the residents will be able to relax.

The Kew Revue was held on December 17th in Twickenham. This year the Drama Group presented their version of "Cinderella". Rehearsals were held here, there and everywhere; and at all times of the night. As usual dancing took place after the "Pantomime".

We also went Carol-singing shortly before Christmas. The money collected was donated to the Richmond Philanthropic Society which does so much for the needy of the old Borough of Richmond.

HUGH FLOWER, *President, Students' Union.*  
CHRIS BOWLES, *Secretary.*

## **ATHLETICS EVENTS IN 1974**

The first athletic event of the 1974 Season was the Round Breedon Race, organised by the College of Horticulture, Pershore. This was part road and part cross-country race. Five teams entered with the Rochford team coming first and Kew fourth.

Kew was host for the Kew to Hampton Court race, finishing at Kew. The race along the tow-path in fine weather attracted good support. Rochfords, maintaining their winning streak, were first home in two hours, six minutes and two seconds, followed by Kew Guild, Pershore, and the Royal Botanic Gardens, Kew, again coming in fourth place.

The Curator was the official starter for the Clog and Apron Race on the 21st October. In spite of the cold, Jeremy Strudwick was followed home by Tom Jones and Mark Bovey, all three receiving an engraved medal.

The final event took place two days later, when the Round The Gardens Race was won by Terry Elkington in 15 minutes, 47 seconds, with John Hacker and Mark Bovey coming in second and third places.

C. G. REEVES, *Athletics Secretary.*

**J. HEPPELL**

Joseph Heppell died on the 18th January, 1973, at the age of 62. Brought up in Norfolk he assisted in local gardens on leaving school before going on to study at Avoncroft, Reading and Kew, which he left in 1937. In the late 1930's he went on to teach at Eastmoor School in Leeds and at Usk College in Monmouthshire before joining the War Agricultural Executive staff in Brecon and Radnor. From 1947 he was successively Horticultural Advisory Officer for the Ministry in Monmouthshire and Kesteven, Lincolnshire, before early retirement in 1971.

Joe Heppell quickly established himself as the growers' friend. His down-to-earth advice and his friendly nature made him a welcome visitor on plantations large and small. His interest in plants and people made him sometimes impatient of "forms and papers", for he liked nothing better than to walk the fields and handle the crops, whether on our 180 acres of blackcurrants or on a small holding.

He made friends and kept friends and to those friends it seems impossible that he will not again drive up cheerfully to solve our apparently insoluble problems with the sovereign remedy of commonsense.

Those who sought his advice received it. Those who used his advice benefited from it. He will be remembered with gratitude and affection. He is survived by his widow Doris and three sons.

HOWARD FERNE, Gloucestershire.

We thank Mr. Ferne for his appreciation. His widow, Mrs. Doris Heppell, gave the following additional information—"Mr. Heppell resided at Ruskington, Lincs., during the 23 years he served the Kesteven district in the N.A.A.S. and retired in April 1971 owing to ill-health. For a number of years he was on the Committee of the Kirton Experimental Horticultural Station".

(It was on the 24th January, 1973, that the late L. G. Atkins wrote—"Joseph Heppell died suddenly while a passenger in a car. I have known him since 1931 and we were closely associated as N.A.A.S. Advisors for about 25 years." Mr. Atkins died only a few months later on the 11th June, 1973—see obituary.)

## F. N. HOWES

Dr. Frank Norman Howes, formerly Keeper of the Museums at Kew, died suddenly on 25th February, 1973.

Dr. Howes was born in South Africa on 2nd August, 1901. He was educated mainly in Durban, where he attended the Boys High School and later Natal University College (now the University of Natal). He took a B.A. degree in Botany and Chemistry and afterwards worked for a time on the Botanical Survey of South Africa. In November 1924 he joined the research branch of the Gold Coast (Ghana) Department of Agriculture, where he stayed for a short time only, as in 1926 he was appointed an Assistant in the Museums of Economic Botany at Kew. Dr. Howes remained in the Museums until he retired, and was Keeper from 1948-1966, having succeeded Dr. J. Hutchinson on the latter's retirement.

Dr. Howes obtained his M.Sc. while working for the Botanical Survey of South Africa and in 1924-25 took an economic botany course at Kew. He was elected as Fellow of the Linnean Society in 1925, and was awarded a D.Sc. by the University of Natal in 1934. In 1966 he gained the Imperial Service Order.

Dr. Howes published books and papers on a wide range of subjects, from resins to bee plants. His most successful book was probably the one he wrote on nuts in 1948 and his last, published posthumously, was *A Dictionary of Useful and Everyday Plants and their Common Names*. This is based on the economic botany material contained in the 6th edition of *Willis' Dictionary of the Flowering Plants and Ferns*, which had to be omitted from the 7th edition.

Dr. Howes was a crack rifle shot and competed at Bisley; he must have been a distinct asset to the Home Guard, which he joined during the War. He was a quiet, reserved man, but with a strong, dry sense of humour. He was an extremely kind person, always considerate of other people, and those who knew him all miss him very much and extend their sympathy to his wife Marjorie (née Hephher) and their son John.

ROSEMARY ANGEL.

## I. MANDERS

It is with sorrow that we record the untimely death of Ian Manders who was fatally injured on Sunday, 23rd July, 1974, whilst on holiday with friends in Inverness, Scotland.

Ian was born in Montrose, Scotland, in 1948 and was the youngest son of three children. At the age of 16 his determination to seek independence and career progression led him first to the West Scotland College of Horticulture and then to a journey "South of the Border" to Thomas Rochfords. Ian joined Kew as a student in October 1969 and though unable to attain the academic requirements of the course, strove to prove his ability as a young man equipped with the finest horticultural skills. To those who knew

Ian as a friend and colleague his parting has left a void. His warmth, carefree attitude and determination to succeed when all seemed lost, gave us a personality which will long be remembered.

His sporting prowess won him an accolade of honours whilst at Kew—both within the activities of the Students' Union and with the local Kew Association F.C. whom he represented at 1st team and 2nd team level. He revived the Garden's second rate football team to be one of the most formidable in Kew's history, whilst his fitness and courage won honours for Kew in the 1970 Kew-Wisley Road Race and for himself two successive victories in the annual Round Gardens Race. His first athletic feat was at Pershore in 1971 when the Kew team were the back markers. Ian displayed sheer courage and shattered the lap 6 record which is still credited to his name today.

Ian left Kew in the late Spring of 1972 to join two ex-Kewites in their Landscape Construction and Maintenance business. His departure from Kew was limited to this new venture only, but he continued to maintain many friendships and supported all the social functions.

Ian's contribution to the life at Kew during 1969-1972 will always be remembered with affection. We offer our sincere and deepest sympathies to his parents and his sister Cathy and his brother Brian.

ROBIN BLETSOE.

## A. HEARN

Arthur Hearn died of a heart attack on 2nd January, 1973, at Newcastle-upon-Tyne.

He was born in Leyton, Essex, in December 1897, but spent his childhood in Woolhampton, Berks. During the First World War, he served in the newly formed Royal Flying Corps as a photographer, and took many of the first aerial shots from the flimsy aircraft of sixty years ago.

After demobilisation, he worked in Government offices at Whitehall, but in the early 1930's moved to work on the administration side at Kew Gardens, then under the direction of Sir Arthur Hill. Like photography, horticulture was always a great interest throughout his lifetime. In 1947, he transferred to the Ministry of Agriculture, Fisheries and Food, when he moved to Newcastle-upon-Tyne as a Senior Executive Officer concerned with land and horticultural development.

In 1957, he retired from the Civil Service, and in the following year was awarded the O.B.E. as recognition for his services. During the fifteen years of his retirement he still worked for the Civil Service organising and invigilating at examinations for the Civil Service Commission, as well as examinations for the Police Force.

In 1928, he married Elizabeth Hopkins in Birmingham and they moved to live in Heston, Middlesex. In 1933, their son Donald

was born and in 1941 Shirley (a niece of Arthur's wife) became their adopted daughter. After the death of his wife Elizabeth in May 1965, he remarried in September 1966 Mrs. Winifred Jenkins, whom he leaves as his widow.

We express our sincere sympathies to his widow and relatives.

### **MRS. N. L. ALCOCK**

Mrs. Nora Lilian L. Alcock, M.B.E., died at the age of 97 on 31st March, 1972. She was one of a band of British pioneers in the subject of plant pathology who had entered this field late in life. She came from a family long involved in public service, her father being Sir John Scott, Judicial Adviser to the Khedive of Egypt, and her grandfather was Sir Roland Hill. Mrs. Alcock's early life was spent in Egypt but she moved to Canada when she married Dr. Alcock who became a Professor of Medicine at Quebec University.

On becoming a widow in 1915 she returned with her family of four to London, saw brief service in a London hospital and then joined the newly formed Plant Pathology Laboratory of the Ministry of Agriculture stationed at Kew Gardens. She quickly learned mycology under the Director, Mr. (later Sir) John Fryer, and from John Ramsbottom of the British Museum and Professor Dame Helen Gwynne-Vaughan, the latter two becoming her life-long friends. While at Kew Mrs. Alcock had as co-learner of mycology, the young W. B. Brierley, later to become Professor of Agricultural Botany at Reading University and of whose compassion and generosity to the poor she had many a story to tell. Even after she moved with Sir John Fryer's staff to new quarters at Harpenden, which she had helped to select, she kept in touch with successive Directors and staff at Kew, including Sir Arthur Hill and Sir Edward Salisbury. So it was that she got to know Professor K. W. Braid, a student in 1921 at Kew, and who went to Scotland after further University training.

Mrs. Alcock seized the chance in 1924 to move to Edinburgh to take charge of the Department of Agriculture for Scotland's newly formed Plant Pathology Laboratory first sited at the Royal Botanic Garden, since it enabled her to obtain good university education for her family. Here she soon built up a reputation for quick and practical advisory service in plant pathology and trained a succession of three short-term assistants who later made their mark in other countries. Mrs. Alcock also pioneered the study of seed pathology, a subject now much to the fore in every country.

The writer joined her staff in 1928 and succeeded her when she retired in March 1937. She will long be remembered for her gentle, graceful and charming personality, for her firm resolution and complete integrity and for her gift as a witty raconteuse.

**DR. C. E. FOISTER.**

## H. S. A. MARSHALL



It was with great regret that we heard of the death of Mr. Henry Samuel Amos Marshall, at the home of his son in Orpington, Kent, on 31st March, 1974.

Harry Marshall, as he was known to his colleagues in the Herbarium, was born on 29th May, 1892, in Strand-on-the-Green, and was the son of an Old Kewite, Samuel Wordsworth Marshall. After leaving St. George's School, Brentford, at an early age, Harry Marshall came to work in the Herbarium, Royal Botanic Gardens, Kew, where for 18 months he assisted the late Mr. J. R. Drummond in cataloguing the collection of botanical specimens of Mr. J. F. Duthie. During this time he attended the lectures on Sys-

tematic Botany which were given to the Student Gardeners. He also assisted Mr. Fitch, the famous artist, in tracing botanical drawings. On the completion of this work he obtained employment at the Imperial Institute, South Kensington, from September 1910 until December 1912 where he worked with the staff on the Indian Economic Collections. On leaving the Imperial Institute Harry Marshall went to Syon Gardens, Syon House, Isleworth, where he worked as a gardener for more than two years in the Conservatory and Stove House. During the First World War he was attested and graded under the Derby Scheme and then went to work on munitions at the Cowey Engineering Co. Ltd., Kew, from June 1915 until March 1931 when the company went into liquidation. During his latter years with this firm he was in charge of a machine shop and became involved in a considerable amount of office work and mathematics in which he had taken a special course.

Harry Marshall re-joined the Kew staff in 1932 and soon became a Sub-Assistant in the Library. When much of the latter was evacuated to the country with some of the priceless botanical collections at the outbreak of World War II, Marshall took over the responsibility, under the supervision of the Keeper of the Herbarium, Mr. A. D. Cotton, of the running of the Library, dealing in a pleasing and efficient manner with queries for staff and visitors which were

often complex and puzzling, as well as putting in many long hours at night fire-watching and on other A.R.P. duties. He was a gentle and kindly man and all who worked with him and for him, and who experienced his generous help and advice, had much to be grateful for. In 1948 he succeeded Ernest Nelmes as Librarian, a post he filled most successfully until his retirement on 23rd July, 1961. During his Librarianship he wrote a number of papers, mostly of a bibliographical nature, which were published in the *Journal of the Society for the Bibliography of Natural History* and in the *Kew Bulletin*. Perhaps Mr. Marshall's major bibliographical work was the "Catalogues of Old Books Contained in the Libraries of the Royal Botanic Gardens, Kew, and the Botany Department of the British Museum (Natural History)", which he compiled in conjunction with Mr. A. C. Townsend of the British Museum (Natural History). This catalogue, started as a result of a suggestion by the late Dr. T. A. Sprague, contains a great quantity of valuable bibliographical information about books published up to and including the year 1623. Unfortunately circumstances prevented publication. The work consists of two volumes of Ms, of which there are copies both at Kew and the Museum. Like his father his handwriting was copper-plate and he mounted many specimens, especially during the war years, including about 20,000 sheets of grasses.

Mr. Marshall was a Fellow of the Linnean Society for many years, and in 1961 he was awarded the M.B.E. in the Queen's Birthday Honours List. He was a life member of the Kew Guild and Assistant Editor of our Journal from 1943-1945 during which time he put in much valuable and hard work in bringing the address list of Past Kewites up-to-date.

After his official retirement Mr. Marshall remained on in the Herbarium for two more years when he was employed by the Bentham-Moxon Trustees to assist in the compilation of a second supplement to the *Index Londinensis*. In July 1963 he moved with his wife (who predeceased him) from their home in Twickenham to settle in a bungalow in Stanway near Colchester, Essex, to be near a relative, and he remained there until nine months before his death. He is survived by his son and five grand-daughters.

Kew was represented at his funeral, which took place at Orpington on 4th April, by Mr. D. V. Wilson, the Deputy Librarian.

MOLLY KIERANS.

**L. G. ATKINS**

We regret that Mr. L. G. Atkins died at Ashford, Middlesex, on 11th June, 1973, after a sudden heart attack.

He was born at Hextable, Kent, on 11th January, 1906. From January 1920 to January 1926 he worked at Swanley Horticultural College first as a boy, then an improver and finally as foreman in the market glasshouses. Then for a few months he was general assistant at the Grove Gardens, Watford, before taking a studentship at Cambridge Botanic Gardens. In September 1929 Atkins entered Kew as a student, later becoming under-foreman in the Temperate House. In October 1931 a move was made to Reading University where he gained the Diploma of Horticulture.

From October 1933 to January 1943 Atkins held the post of Garden Superintendent for several estate blocks of flats at Wembley, but also during this period he was Horticultural Instructor at Evening Institutes and on war-time allotments. His work in this latter field became full time with his appointment in February 1943 as the County Instructor in Horticulture for Cumberland. In 1946 he became a member of the N.A.A.S. and worked in Pembrokeshire for several years and then became Chief Horticultural Officer for Lindsay, Lincolnshire, until his retirement in 1969. He moved down to Ashford in 1961 where he became an active member of the Ashford Gardeners' Association.

His daughter, Mrs. Valerie Main, wrote, "My father frequently visited Kew in his last years and often spoke of happy times there".

(He was a close associate with the late J. Heppell, both in the N.A.A.S. for 25 years in Lincolnshire. See obituary.)

**J. D. SNOWDEN**

It is with deep regret we record the death of the distinguished Kewite Joseph Davenport Snowden, on 9th May, 1973, at the age of 86. Mr. Snowden was Vice-President of the Kew Guild from 1960 to 1962, when his photograph and an account of his life and work appeared in the *Journal*, vol. 7, pp. 761-762, 1960. He and his wife celebrated their Golden Wedding anniversary on 10th July, 1965. After his wife's death, he moved from Barton-on-Sea, Hampshire, to Tunbridge Wells, Kent, from which he was able to make

occasional visits to his beloved Kew. His studies of the genus *Sorghum* brought him world-wide renown, and on 25th February, 1965, the Grain Sorghum Producers' Association of North America awarded him a commemorative bronze plaque inscribed "For distinguished service to American Agriculture through his Grain Sorghum Research", which was presented to him at a luncheon party in London on 7th July, 1965, a ceremony which gave him much pleasure. Snowden was one of a small band of Kew-trained men who gave valuable service to the Uganda peoples in the improvement of their agriculture and horticulture, and gathered numerous specimens of their native plants for the Kew Herbarium.

C. E. HUBBARD.

### L. BUSS



Leslie Buss died on 7th August, 1974, aged 80. He was born on 16th February, 1894, in Smarden, Ashford, Kent.

Leslie left Smarden at the age of 14 years to work as an apprentice at Shippams in Chichester. His studentship at Kew was broken by the First World War and he joined The Royal West Kent Regiment. He returned to Kew in 1919 and served in the Arboretum Nursery. (It was a special pleasure to him during his retirement that many of the early plantings at the Bedgebury Pinetum had been raised during his time in the nursery.) Whilst at Kew he received the Mutual Improvement Society's Prize for the best lecture of the year.

In 1925 Leslie took up the post of Horticultural Assistant at Durham where he was based at the Horticultural Station, Houphall. He was married at this time in St. Anne's Church, on Kew Green. Leslie made his mark particularly as a lecturer, and as a member of the Advisory Service. He eventually became the first Deputy Principal of the Durham Agricultural College and was also Horticultural Superintendent of the County. In this post he was one of the earliest to engage in the work of planting up pit heaps. In the words of his daughter, Brenda Croydon—"This work improved the appearance of some of the older mining areas of a county which deserves more praise for its rural beauties than it normally gets".

We send our sincere sympathies to Mrs. Croydon and to other relatives.

### **C. G. W. GARDNER**

Coningsby George Wyatt Gardner (George Gardner as everyone knew him) died on the 16th June, 1974, at the age of 81 after an illness of less than two days. Practically all his life, right through into his retirement, he found great pleasure working in gardens.

He was born on 27th April, 1893, at High Wycombe, Bucks., and at the age of 19 became an apprentice gardener at Chatsworth, Bakewell, Derbyshire, in the gardens of the Duke of Devonshire. He remained there till the outbreak of the First World War when he joined the 2nd Northumberland Fusiliers and served for the whole of the war finishing as an officer.

During the early post-war years he owned and ran a greengrocer's shop and one attraction to the customers was the wireless which he made himself and placed on the counter, when wireless telegraphy was in its infancy.

Later he moved to East Twickenham, Middlesex, and started at Kew on the Lion Gate end under Mr. Osborne.

Towards the end of the 20's Anna Pavlova, the famous ballerina, who lived at Hampstead, was looking for a gardener and George was recommended and worked for her in his spare time. He was at Kew for 33 years, retiring in 1959, his final post being that of Foreman in the Arboretum North Department. He was awarded the Imperial Service Medal in recognition of his services to the Gardens.

On retirement he took a part-time gardening job for some years and finally went to live with his son and family in Ipswich, Suffolk, for the last two and a half years of his life. Once again he cared for a garden and took great delight in keeping his son's neat and tidy.

His other interests when young included tennis and athletics and when middle-aged helping the aged and infirm, through the St. Margaret's Philanthropic Society, which he served for many years and who gave him the honour of Life Membership.

He was a quiet, modest man of kindly disposition, who will be missed by many.

G. L. GARDNER.

### **G. H. PRING**

After an enriched life of serving public horticulture for 70 years, George H. Pring, Horticulturist and Superintendent Emeritus of the Missouri Botanical Garden, passed away quietly in Westchester, Pa., on 9th May, 1974, at the age of 88½ years. Born in Devonshire, England, 2nd December, 1885, George left Kew in 1906. His first professional job was to take charge of the Departments of Orchids and Exotics as Foreman at the Missouri Botanical Gardens in St. Louis, Missouri, that same year. He moved on to Floriculturist in 1918; Horticulturist in 1919; and then as Superintendent in 1928; until his Emeritus appointment in 1963, following 57 years of active

professional Horticulture at that institution. Between 1963 and 1969, George took charge of consultation and answering the public inquiries on horticultural and home gardening problems received from the St. Louis public at the Garden.

After a total of 63 years with the Missouri Botanical Garden, his wife Belle passed away on 25th March, 1969, following which he lived with his daughter, Mrs. Russell J. Seibert, at Longwood, Kennett Square, Pa.

Through his long and productive life, George was honoured by 10 organizations for his meritorious work in the field of Horticulture. These included the National Gardeners' Association Gold Medal 1920; The American Orchid Society Silver Medal 1925; The Thomas Roland Medal of the Massachusetts Horticultural Society for Plant Breeding 1940; National Citation from the American Horticultural Congress 1956; and the Gold Medal Award from the Men's Garden Club of America 1961.

Among his many horticultural society affiliations, he was a charter member of the American Orchid Society, for which he served as a Trustee for two terms and as a Vice-President. He was the General Chairman for the 1st World Orchid Conference held in St. Louis, Missouri, in 1954.

For many years, he served the St. Louis Horticultural Society in various capacities including President from 1933-1942. He served as President of the Kew Guild, London, for a term in 1950-51.

Throughout his life, he lectured to countless organizations on innumerable gardening and horticultural subjects. His two greatest plant loves were orchids and waterlilies. In both these fields, he contributed many new cultivars developed through his talents in plant breeding and on which he was considered to be an international authority. He conducted a number of plant explorations for orchids into Colombia and Panama. His hobby research was centred on the *Nepenthes* and other members of the wide range of insectivorous plants found throughout the temperate and tropical worlds.

He loved to record his plant-oriented discoveries and experiences by supplying many of the articles for the Bulletin of the Missouri Botanical Garden as well as for a number of national and gardening magazines and newspapers.

George was a flower show enthusiast and as such, judged throughout the country as an accredited judge of the American Orchid Society and the Men's Garden Club of America. As a teacher, he had charge of the Missouri Botanical Garden Vocational School for training ex-service men following World War I. He trained flower and garden judges, conducted amateur gardening classes and was engaged on occasion to offer special courses in school gardening under the Cleveland, Ohio, Board of Education.

George was well-known for the superb floral exhibits presented for public view during his years at the Missouri Botanical Garden.

He leaves a daughter, Isabelle L. Seibert, and two sons, George D. and Charles B., both of St. Louis, as well as 10 grandchildren and 10 great-grandchildren.

To George, Horticulture was a way of life. His friends at the St. Louis Horticultural Society upon his retirement, had a lapel pin made up for him commemorating his three greatest loves, including a bell for his wife Belle, an orchid flower and a water-lily flower. He always wore it with pride and with love for all things in the green world and for his wide human friendship and many associates both here and abroad.

RUSSELL J. SEIBERT,

Director, Longwood Gardens,  
Kennett Square, PA 19348.

### J. OFFLEY



It is with deep regret that we record the death of John Offley. He was born in Leytonstone on 4th October, 1910, and died on 4th May, 1974, after a long and painful illness.

John started his horticultural career at John Innes Horticultural Institute, Merton, in 1925, following this with a term at the University Botanic Gardens, Cambridge, where the late F. G. Preston was Curator. During October 1931 John left for Aldenham House, the home of The Hon. Vicary Gibbs, where the renowned Mr. Edwin Beckett was Head Gardener. His stay there was only a short one for the owner died and he moved on to St. John's College, Cambridge, where he worked in

the kitchen garden under Mr. Ralph Thoday.

John started at Kew as a Student Gardener in January 1934 and after two years he became a Sub-foreman, first in the Palm House and later the Ferneries. He left Kew in September 1937.

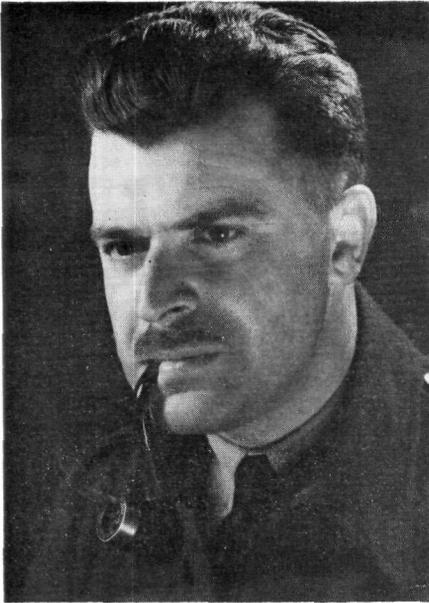
John, who suffered with eczema on his hands since his childhood, was forced at this stage to give up his horticultural career. He joined the Post Office telephone service where he worked for 12 years before joining Mr. J. Bergen and engaged on machine engraving. He became very skilled at this, specialising at inlaying gold on ivory. Another speciality was the production of important

Badges (including the enamelling), for example, the Knights Bachelor Badges. His work was held in high regard in the London jewelry trade.

We send our sincere sympathies to his widow Louise and to their three daughters and other relatives.

(Mrs. Louise E. Offley sends her regards to any Old Kewites who were her friends and her father's customers—Mr. Alphonse Simon, photographer, 227 Sandycombe Road, Kew. Mrs. Offley wrote, "It was sad to see Kew Pavilion had been taken down. We spent many happy hours there at student dances. Even more so as my grandfather, George Wise, built his boats there so long ago".)

## F. HAROLD WRIGHT



Late in November, 1973, news reached us of the death of F. H. Wright, who as Horticultural Officer at Peterlee, Co. Durham, had brought his skill and knowledge into the centre of the New Town, transforming the whole into a beautiful park.

He received his early training at Reading University, where he gained a Certificate in Horticulture. This was followed by a Studentship at Cambridge University Botanic Gardens during which period he was successful in the R.H.S. Senior Examination. His stay at Kew as a Student Gardener was from 1931-33, and this was followed by a move to South Shields as Assistant Parks Superintendent, and then to Darlington

as Superintendent.

During the war he spent five years in the Royal Air Force, serving in Egypt and was "Mentioned in Dispatches". Upon demobilisation he returned to his former post in Darlington for a short period until his next move to Liverpool as Senior Parks Superintendent. His final move was to Peterlee. In the words of his widow, Mrs. C. M. Wright—"Ten years ago his health broke down and he was forced to retire. He died on the 27th November, 1973, at the age of 64".

We offer Mrs. Wright and other relatives our sincere sympathies.

## 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 last 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 thereof.
- (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.

*Dissolution of the Guild.*

- (16) A motion to dissolve the Guild may only be made at a Special General Meeting and to effect a dissolution at least three-quarters of the members actually present and voting at the meeting shall vote in favour of the dissolution. If a motion to dissolve the Guild is carried by the said majority the Guild's surplus funds, property and assets (if any) shall be disposed of for charitable purposes in connection with education and research and particularly for such charitable purposes of education and research in connection with botany and horticulture as the members may at the said Special General Meeting decide, or failing any such decision to a charity connected with botany and horticulture to be nominated by the Director of the Royal Botanic Gardens, Kew, for the time being, to the intent that no member of the Guild shall receive any of the said funds, property and assets by virtue of his membership.

*Property of the Guild and Trustees.*

- (17) (a) The Guild may purchase or otherwise acquire and hold property of any nature and may sell lease mortgage or otherwise deal with the same. Any property belonging to the Guild may be invested in the names of not more than four and not less than two Trustees who may be appointed from time to time by the Committee and any vacancy amongst such Trustees shall be filled by the Committee. Such property may also be invested in the name of a limited company established by and under the control of the Guild for trust purposes.
- (b) Such investments may be in or upon such shares, stocks, funds, securities, investments, and property, real or personal, freehold or leasehold in any part of the world upon such terms and conditions (if any) as the Committee shall in their absolute discretion think fit and in all respects as if the Committee were the sole beneficial owners thereof. The Committee may from time to time direct the Trustees to sell vary and transfer such investments and property.
- (c) The Committee may deal with the said investments as if they were the sole beneficial owners thereof.
- (d) If legal proceedings of any kind are resorted to or defended by the Guild the Trustees shall on the instructions of the Committee but not otherwise prosecute or defend such proceedings either in the name of the Guild or in the name of the Trustees or otherwise on behalf of the Guild as may be necessary.
- (e) The Trustees shall in all respects act as required by the Committee and a copy of a minute of the Committee signed by the Honorary Secretary shall be conclusive evidence of its decision.
- (f) Any Trustee may be removed from office by a resolution passed at a meeting of the Committee by a vote of not less than three-quarters majority of the members of the Committee present and voting at the meeting. At least seven clear days' notice of a special meeting to remove a Trustee shall be given to all members of the Committee and the agenda for the meeting shall state concisely the reasons why the removal is considered necessary and the accused Trustee shall be permitted to make his defence orally or in writing.
- (g) The Trustees shall be effectively indemnified by the Committee from and against any liability costs expenses and payments whatsoever which may be properly incurred or made by them in relation to the trusts of the property and investments of the Guild or in relation to any legal proceedings or which otherwise relate directly or indirectly to the performance of the functions of a Trustee of the Guild.
- (h) Except where otherwise provided the Trustees may act by a simple majority of those present and voting at a meeting of the Trustees.
- (i) The Trustees shall from among their number appoint an Honorary Secretary.

## INCOME AND EXPENDITURE ACCOUNT

		DEBIT			
1973				1974	
£				£	£
	<b>To Kew Guild Journal:</b>				
	Printing 1973 Journal (inc. blocks) ... ..			598.00	
	Postage ... ..			51.15	
				<u>649.15</u>	
454.94	Less Journal Sales ... ..			10.72	
				<u>638.43</u>	638.43
30.90	<b>To Prizes awarded by the Guild: 1974 ... ..</b>				42.00
	<b>To Annual General Meeting:</b>				
14.20	Printing, postage, envelopes ... ..				29.53½
19.48	<b>To Hon. Officers' Expenses ... ..</b>				33.79½
40.50	<b>To Benevolent Payments and Wreaths ... ..</b>				13.80
58.47	<b>To General Printing, Postage and Stationery ... ..</b>				21.01
19.00	<b>To Typing and Clerical Expenses ... ..</b>				26.80
3.40	<b>To Insurance and Bank Charges ... ..</b>				4.25
41.37	<b>To Guild Emblems ... ..</b>				—
	<b>To Guild Annual Dinner:</b>				
	Cost of dinner, printing, gratuities, less receipts ... ..				38.53
<u>682.26</u>					<u>848.15</u>
187.92	Income Exceeds Expenditure ... ..				410.00
<u>£870.18</u>					<u>£1,258.15</u>
<u>4,580.43½</u>	Balance as per Balance Sheet ... ..				<u>4,996.51</u>
<u>£4,580.43½</u>					<u>£4,996.51</u>

## BALANCE SHEET

		LIABILITIES			
1973				1974	
£				£	£
4,580.43½	<b>Capital Fund:</b>				
	As per attached statement of Assets ... ..				4,996.51
	<b>Current Liabilities:</b>				
	<b>Life Subscriptions—</b>				
	58 @ £1.00—half rate ... ..				29.00
	72 @ £2.00—half rate ... ..				72.00
	72 @ £3.15—half rate ... ..				113.40
	6 @ £5.25 ... ..				31.50
	15—no record ... ..				—
251.97½	...				<u>245.90</u>
<u>£4,832.41</u>					<u>£5,242.41</u>



## LIST OF OLD KEWITES WHOSE ADDRESSES ARE UNKNOWN

1965	Akance, L. A.	1947	James, K. H.
	Anderson, J. W.	1960	Johnston, M. A.
1954	Ashley, R. F.	1949	Lavender, F. R.
1965	Barber, A. V. H.	1931	*Lee, L. A.
1956	Baylis, C. L.	1965	Manger, G. L.
1953	Bentham, H.	1934	Martin, L. P.
1958	Bingham, C. A.	1959	Mason, J. D.
1959	Bird, S. F.	1954	Massey, A.
1945	Blowers, J. W., A.H.R.H.S.	1949	May, C. J.
1956	Boulton, J. B.	1969	McKarry, B. G.
1951	Brooks, V.	1942	Melville Towers, Mrs. Lismore (Miss E. Plummer).
1943	Brown, J.		
1951	Brown, J.	1971	Miller, B. C. B.
1913	*Candler, S. R.	1963	Mitchell, A. J.
1949	Child, R. F.	1933	Mould, A.
1945	*Clarke, P.	1969	Norwood, D. A.
1936	Cross, G. H.	1940	Prior, M. C.
1959	Crossman, J. H.	1934	Robinson, H. P.
1965	Duncan, C. M., N.D.H.	1965	Robinson, K.
1959	Dunnenberger, W.	1967	Saxon, E.
1927	*Elson, A. S.	1969	Shorey, M. J.
1945	*Everett, W. E.	1937	Simmonds, F. L.
1945	*Farmer, Mrs. W. O. (Miss J. M. Thompson).	1953	Smith, I. L.
		1934	*Stanley, M.
1942	Flew, Miss M. G.	1948	Stevenson, Mrs. E.
1936	*Fossum, M. Truman	1967	Tennant, J. R.
1967	Gaskin, G. M.	1913	*Tindall, H. B. A.
1934	*Ginkel, C. van	1938	van Ryneveld, C. C.
1967	Goddard, H. N.	1967	Vivian, A.
1966	Gordon, C. E. B.	1948	*Ward, O. J.
1955	Hamblett, N.	1968	Wheatley, G. G.
1972	Harris, J.		Wickens, E. G.
1971	Haywood, L.	1959	Willis, J. H.
1956	Hind, H.	1959	Willoughby, B. J.
1912	Illman, G. E.		

## ADDRESS LIST OF OLD KEWITES (April 1974)

(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)

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.

- 1973 -Abrahams, M. R., 31 Barcombe Heights, Paignton, Devon, TQ3 1PV.  
 1959 -Adams, R., 69 Selwyn Avenue, Richmond, Surrey.  
 1938 \*Addison, G. H., Lot 5, Owen Road, Darlington, W. Australia, 6070.  
 1957 -Addison, P., N.D.H., 6 Walney Road, West Derby, Liverpool, L12 5EW.  
 1960 Adthead, P., Hothley, Kingsgate Road, Winchester, Hants.  
 1926 -Agate, C. J., RTI Box 645, WTZ, FLA 33549, U.S.A.  
 1949 -Ainslie, E., 32 Bakewell Road, Hazel Grove, Stockport, Cheshire.  
 1939 \*Airey, J. E., Westmoor Gardens, Mansel Lacy, Hereford.  
 1945 \*Albert, Mrs. H. (Miss H. J. Stent), 65 Summet Street, Oyster Bay, Long Island, N.Y., U.S.A.  
 1930 Alcock, R. M., 5 Upper Mount, Grangewood, Haslemere, Surrey.  
 1930 Alcock, R. M., 5 Upper Mount, Grayswood, Haslemere, Surrey.  
 1969 Alderson, M. J., 21 Blue Road, Tiptree, Colchester, Essex.  
 1962 -Aldous, J. Moved away.  
 1946 Allen, Miss B. (See Mrs. F. Christopher).  
 1948 Allen, F. H., Coombe Villa, Wootton-under-Edge, Glos.  
 1961 -Allen, J., 21 Shepherds Walk, Cove, Farnborough, Hants.  
 1930 Allison, B. W., D., Parks Dept., Salford, Lancs.  
 1956 -Alphonso, A. G., D., Botanic Gardens, Singapore.  
 1945 \*Ambrose, Miss R. M. (See Mrs. J. Souster).  
 1957 Amoah, G. K. A., Ministry of Works and Housing, P. & Gdns. Div., P.O. Box 43, Accra, Ghana.  
 1926 \*Anderson, A. W. C., N.D.H.(N.Z.), 224 Church Street West, Timaru, N.Z.  
 1965 -Anderson, G. H., B.E.M., 29 Glenwood, Harmans Water, Bracknell, Berks.  
 -Andoh, A., P.O. Box 967, Lusaka, Zambia.  
 1956 Andrews, B. R., Park Dept., City Hall, Edmonton, Alberta, Canada.  
 1947 Andrews, R. H., 67 Chiltern Avenue, High Wycombe, Bucks.  
 1968 -Annawetty, Miss L. (See Mrs. M. Nunov-Mensah).  
 1962 -Anwyl, R. B.  
 1954 -Appleby, J., 53 Rathbone Road, Liverpool, L15 4HG.  
 1964 -Armony, A., M.A., D., Parks D., 51 Kaplanski Street, Givataim, Israel.  
 1947 \*Armstrong, C. E., N.D.H., H.L., Kesteven Farm Inst., Caythorpe Court, Nr. Grantham, Lincs.  
 1970 -Armstrong, G. D., Botanic Garden of Smith College, Northampton, Mass., 01060, U.S.A.  
 1931 \*Arnold, T. A., Box 90, Bedfordview, Transvaal, S.A.  
 1920 \*Ash, Mrs. W. (E. M. Harper), 22 Palace Court, Hampstead, N.W.3.  
 1944 \*Ashby, Mrs. D. (F. A. Sharps), Dip. Hort. (Reading), N.D.H., 145 High Street, Harston, Cambridge.  
 1956 -Ast, R., Huob, 6330 Cham/ZG., Switzerland.  
 1958 -Atkinson, Miss A. L. M. (See Mrs. Clemson), Agricultural Education Office, Bridge House, Bakewell, Derbs.  
 1954 -Attenburrow, D. T., c/o Fisons, Levington Research Inst., Ipswich, Suffolk.  
 1950 -Attwood, C. A., Atlas, East Lane End, Fairmoor, Morpeth, Northumberland.  
 1910 \*Aubrey, A. E., 83 Newbridge Street, Wolverhampton, Staffs.  
 1939 \*Aves, J. J., D.S., P.O. Box 1454, Parks Dept., Pretoria, S.A.  
 1972 -Axton, Miss M. R., 41 Wilmot Way, Banstead, Surrey.  
 1968 -Baas, Dr. P., Rijks Herbarium, Schelpenkade, 6, Leiden, Netherlands.  
 1920 \*Baker, E., The Myrtles, Bucknalls Lane, Garston, Herts.  
 1947 -Baker, M. E., 25 Springfield Road, Bury St. Edmunds, Suffolk.  
 1939 \*Balch, R. W., N.D.H.(N.Z.), East Taieri, R.D.2, Mosgiel, Otago, New Zealand.  
 1968 Balfour, A. H., 61 Mars Street, Kensington, Johannesburg, South Africa.

- 1961 -Ballard, F., B.Sc., A.R.P.S., 24 Grove Park Road, Chiswick, London, W.4.  
 1971 -Bamkole, C. B., Parks & Gardens Unit, Univ. of Ife, Ile-Ife, Nigeria.  
 1961 -Banbury, J. N., 20 Oxford Street, Woodstock, Oxford.  
 1965 -Barber, A., 26 Ash Hayes Drive, Nailsea, Somerset, BS19 21G.  
 1962 -Baren, M. E., 4 Branwell Drive, Haworth, W. Yorks.  
 1958 -Barker, L. P., 120 Victoria Road, Fulwood, Preston.  
 1923 \*Barker, W. H., N.D.H., M.C., Loxton, Behind Berry, Somerton, Somerset.  
 1966 -Barnes, A. L., "Brandon," 35 Walton Avenue, Twyford, Adderbury, Banbury, Oxon.  
 1960 -Barnes, H. P., Supt., P.O. Box 42, Wigmore, Pennyhill Lane, West Bromwich.  
 1962 -Barnett, R. C. A., Landscape Architect, 2 Hanarkisim Street, Kfar, Shmaryahu, Israel.  
 1963 -Barwani, M. R., 5 Natal Road, London, N.11.  
 1927 \*Bassett, W. E., M.B.E., 6 Ravenswood Road, Croydon, CRO 4BL.  
 1930 \*Bate, C., D.I.P.A.,  
 1932 -Bates, W., The Gardens, Witanhurst, West Hill, Highgate, N.10.  
 1962 -Bauman, R. C., M.Sc., Box 3924, Wilmington, Delaware, U.S.A., 19807.  
 1954 -Baverstock, E., N.D.H., 1 The Cottage, Sidcup Place, Sidcup, Kent.  
 1956 -Bayliss, C., 236 Rochester Road, Gravesend, Kent.  
 1936 -Beale, Mrs. S. E. (Hampton), Shelvingford, 37 London Road, Liphook, Hants.  
 1970 -Beardsley, C., 50 Cresswell Road, East Twickenham, Middlesex.  
 1953 -Bee, R. A., N.D.H., F.L.S., M.B.I.M., F.Inst.P.R.A.(Dip.), N.D. Arbor, M.Inst. B.C.A., Dir. of Parks, Parks Dept., Cumberland House, Crown Square, Manchester, M60 3BB.  
 1919 Beer, A., University B.G., Innsbruck, Tyrol, Austria.  
 1942 \*Bell, Miss C. O. (See Mrs. C. O. Martin).  
 1963 Bell, H., 61 Evington, Tanhouse, Skelmersdale, Lancs.  
 1918 \*Bell, Miss V. S. (See Mrs. Danes).  
 1964 -Bentall, M., P.O. Box 984, East London, S.A.  
 1947 \*Benton, P. S. L., Hort. Supt., M.P.B.W. Buildings Branch Dept., Box 967, Lusaka, Zambia.  
 1937 -Berney, M. J., La Plaine, Geneva, Switzerland.  
 1967 -Bessler, W. E., Dip.L.D. (Newcastle), 41 Bell Rd., East Molesey, Surrey, KT8 0SS.  
 1967 -Beswick, J., A.I.L.A., c/o State Reception Centre, 37 Woodville Road, Woodville, S. Australia.  
 1952 Bett, J. R., The Vineries, Harby, Nr. Newark, Notts.  
 1957 Bewley, I. K. (See Mrs. S. D. Hitt).  
 1955 -Billett, M., 176 Downhall Road, Rayleigh, Essex.  
 1924 \*Binnington, R., S., 152 Bellemoor Road, Southampton.  
 1918 \*Bintner, Mrs. J. (Harper), D.I.C., N.D.H., 54 Rue de la Tourelle, Boulogne, Seine, France.  
 1940 -Bird, E., 25 Cannons Meadow, Tewin, Welwyn, Herts.  
 1946 Bird, Miss H. (See Mrs. G. Williams).  
 1933 Blackman, J. A. E., N.D.H., Plumpton Nurseries Ltd., Sussex.  
 1972 -Bletsoe, R. C., "Little Bays," Station Road, Harlow, Essex.  
 1945 -Blowers, J. W., A.H.R.H.S., Goodwood Estate Co. Ltd., Goodwood, Chichester, Sussex.  
 1946 Blowfield, A. H., S., 298 Limpsfield Road, Sanderstead, Surrey.  
 1974 Blundell, K., 267 New King's Road, London, S.W.6.  
 1951 -Boddington, H. P., D.I.P.A., 4 Arundel Avenue, Morden, Surrey.  
 1944 \*Bolton, Miss I. E. (See Mrs. I. E. Cranfield).  
 1936 Bonfiglioli, V., Via Trionfale, 175, Rome, Italy.  
 1924 Booker, A. J., 97 Quay Road, Bridlington, Yorks.  
 1956 Boot, W. A., Supt. of Parks, Box 23, Nigel, Transvaal, South Africa.  
 1938 -Boreman, A. E., S., 58 Ferndale Road, Ashford, Middlesex, TW15 3PP.  
 1948 Borrett, A. H. V., 31 Barton Road, Woodbridge, Suffolk, IP 121 Q5.  
 1947 -Bourner, E., Garage Flat, Nuffield Lodge, Redhill, Surrey.  
 1948 -Borrett, A. H. V., 31 Barton Road, Woodbridge, Suffolk IP 121 Q5.  
 1966 -Bowen, R. D., A.Inst.P.A.(Dip.), 54 Oakridge Road, High Wycombe, Bucks., HP11 2PL.  
 1949 -Bowles, H. A., The Flat, Cross Park Nursery, Coach Road, Newton Abbot, Devon, TQ12 1EW.  
 1947 -Boyle, J. J., Parks Supt. House, Morrab Gardens, Penzance, Cornwall.

- 1970 -Boys, P. A., East Malling Research Station, Maidstone, Kent.  
 1925 \*Braid, K. W., O.B.E., M.A., B.Sc., Lochview, Skene, Aberdeen.  
 1943 Brakin-Smith, Mrs. E. B. (Miss E. P. King), 12 Thornborough Road, Coalville, Leics.  
 1953 Brasher, P. A. D., 24 Devon Avenue, Whitton, Middlesex.  
 1963 -Breach, D. J., Beaulieu Drive, Pinner, Middlesex.  
 1939 -Bridge, S., 437 North Street, Greenwich, Connecticut, 06832, U.S.A.  
 1962 -Bridgeman, P. T., N.D.H., 11 Lees Heights, Charlbury, Oxon., OX7 3EZ.  
 1964 Bridgeman, P. H., N.D.H., N.D.Arb., "Little Rosings," Wood Street, Ash Vale, Aldershot, Hants.  
 1960 Briggs, Miss B. (See Mrs. Cole).  
 1961 -Briscoe, G. E. D., 52 Anreith Street, Roosevelt Park, Johannesburg, S.A.  
 1903 †\*Brooks, A. J., F.L.S., F.C.S., A.H.R.H.S., 3 Somerville House, Manor Fields, Putney, S.W.15.  
 1963 -Brooks, P. S., 21 Newtown, Codicote, Hitchin, Herts.  
 1930 Brown, A. J., S., Parks and Cemeteries, The Lodge, Wigston Cemetery, Leics.  
 1950 Brown, D. A., F.Inst.P.A.(Dip.), N.Y. Bot. Gdn., Bronx Park, New York.  
 1903 \*Brown, E., "Chez Nous," Grove Road, Cranleigh, Surrey.  
 1943 \*Brown, G. B., "Grasscroft," 98 The Avenue, Gosport, Hants.  
 1959 -Brown, J., 4 Bignor Street, Cheetham, Manchester, 8.  
 1926 -Brown, Jas., S., 7 Rupert Drive, Newport, Gwent, NPT 3HN.  
 1950 -Brown, L. R., Dept.P.S., 33 Parkland Grove, Ashford, Middlesex.  
 1946 -Brown, R. M. Stuart, F.Inst.P.A.(Dip.), 45 Windy Hill Lane, Marske, Redcar, Tees-side, TS11 7HR.  
 1928 \*Bruins-Lich, H., 231 Main Street, Waterkloof, Pretoria, Transvaal, Rep. of S.A.  
 1970 -Bruty, H., B.E.M., A.H.R.H.S., 23 Dagmar Road, Kingston, Surrey.  
 1938 -Buckley, A. R. T., A.C., Dept. of Ornamental Plant Research Inst., C.E.F., Ottawa, 3, Ontario.  
 1947 Buller, Miss A. G. (See Mrs. Denys).  
 1968 -Bullock, A. A., B.Sc., F.L.S., Highlands Cottage, Poughill, Nr. Crediton, Devon.  
 1945 \*Bundy, E. F., 62 Combemartin Road, Southfields, London, S.W.18.  
 1945 Bundy, Mrs. (Scott), ditto.  
 1921 Burfoot, C., H.G., Buckhurst Park, Withyam, Tunbridge Wells, Kent.  
 1972 -Burgess, A. G., Oak Ferns, Longstock Park, Stockbridge, Hampshire.  
 1964 Burlingham, Miss K. M. (See Mrs. Dodge).  
 1954 -Burras, J. K., N.D.H., Superintendent's Cottage, Botanic Garden, Rose Lane, Oxford.  
 1922 \*Burrell, Miss L. C. (See Mrs. S. T. Lees).  
 1951 \*Burt, B. L., B.Sc., F.L.S., Royal Botanic Gardens, Edinburgh.  
 1903 Burton, H., 317 Jefferson Road, West Palm Beach, Florida.  
 1949 -Bury, W., Parks Superintendent, Piel View, Public Park, Barrow-in-Furness, Lancashire.  
 1921 \*Butcher, H. G., 11 Bridle Road, Epsom, Surrey, KT17 4EP.  
 1955 Butcher, I. A.  
 1922 Butler, P. J., Bedford College, Regents Park, N.W.1.  
 1919 \*Bysouth, Mrs. R. A. (Davies), Doctor Cooke Nursing Home, Box 1007, Lloydminster, Alberta, Canada.  
 1953 Cameron, J. D., Horticulturist, Parks Dept., East London, South Africa.  
 1912 \*Cannon, H. A., Uganda Coffee and Rubber Estates Ltd., Kampala, P.O. 53, Uganda.  
 1953 Carn, L., N.D.H., 6 Ixworth Road, Troston, Nr. Bury St. Edmunds, Suffolk.  
 1930 \*Carr, G. E., 51 August Avenue, Scarborough, Ontario MIL 3M8, Canada.  
 1947 Carr, O., 35 Park Terrace, Dunston-on-Tyne, Gateshead, 11, Co. Durham.  
 1971 -Carrick, J. I., Moon Crescent, Highbury, South Australia, 5089 Australia.  
 1953 Carson, S. A., 3 Drury Lane, Weston, Canada.  
 1959 -Carter, B., N.D.H., 46 Merlyn Road, Anchorsholme, Blackpool, Lancs. FY5 3AZ.  
 1953 Castree, F., 120 Nether Street, West Finchley, N.2.  
 1958 Catchpole, P. A., Glenwood, 284 Cowley Road, Uxbridge, Middlesex.  
 1970 -Catling, Miss D. M., 317 Hook Road, Epsom, Surrey.  
 1961 -Caton, Miss R. A., Hill Farm, Farnham, Nr. Bishops Stortford, Herts.  
 1929 \*Catt, G. A., 21 Felton Street, Amelia Heights, Balcatta, 6021, West Australia.  
 1923 \*Cavanagh, A. A., 5 Tehidy Road, Camborne, Cornwall.

- 1922 Chambers, Mrs. K. (Watson), Bines Common, Partridge Green, Horsham, Sussex.  
 1919 \*Chandler, P., 205 Reading Road, Wokingham, Berks.  
 Chandler, W., 9 Talbot Street, Hertford, Herts.  
 1939 -Chantler, E., 27 The Ridgeway, Fleetwood, FY7 8AH, Lancs.  
 1955 Chapman, J., c/o Dept. of Agriculture, Nairobi, Kenya.  
 1929 \*Cheek, A. J. W., 19 St. Luke's Road, Maidenhead, Berks.  
 1938 \*Cherry, C. E., N.D.H., F.Inst.P.A., S., Parks Dept., Sear's Park, St. Dunstons Hill, Cheam, Surrey.  
 1938 Chevalier, M. M., 5 Rue Beaugrenelle, Paris, 15me, France.  
 1911 Child, H. V., Kew Convent, Kew, Victoria, Australia.  
 1970 Childs, A. P., N.D.H., 14 Brantfell Road, Blackburn, Lancs.  
 1946 -Christopher, Mrs. F. (Allen, B.), Boro Farm, Tresco, Isles of Scilly, Cornwall.  
 1961 -Chuter, R., Dip.Arb., 66 Maple Grove, March, Cambridgeshire.  
 1957 -Claiden, R. J. T., 78 Graham Avenue, Patcham, Brighton.  
 1955 Clark, D. V., Brookside Nursery, Ware Road, Wormley, Herts.  
 Clark, Miss Frances, Norwood, Baileys Drove, Wool, Dorset.  
 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.  
 1932 \*Clarke, F., N.D.H., 69 Horringer Road, Bury St. Edmunds, Suffolk.  
 1933 \*Clarke, T. R., Plumpton Nurseries Ltd., Sussex.  
 1957 Cleet, A. T., P.O. Box 2824, Johannesburg, South Africa.  
 -Clemson, Mrs. A. L. M. (See Miss Atkinson).  
 1958 -Clift, M., Westfield, Thorndown Lane, Windlesham, Surrey.  
 1970 Clothier, P. F., N.D.H., 22 Heathcote Road, Twickenham, Middlesex.  
 1930 Coales, T. D., 14 Board School Road, Woking, Surrey.  
 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 7EZ.  
 1960 Cole, Mrs. T. (Miss B. Briggs), ditto.  
 1967 -Coleman, D. V.,  
 1958 -Collett, M. J., 125 Mandeville Road, Enfield, Middlesex.  
 1959 \*Collin, H., 13 Defoe Avenue, Kew Gardens, 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.  
 -Colson, Miss R., N.D.H., 29 Hayes Road, Midsomer Norton, Bath, BA3 2QJ.  
 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, Weston-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).  
 1925 \*Cooper, E. C. W., "Jescot," Shripney Road, Bognor Regis, West Sussex.  
 1935 \*Corkhill, W. J., Waen Rodyn Nurseries, Bodfari, Denbigh, Denbighshire.  
 1935 Cossam, 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., 84 Herne Hill Road, Herne Hill, London, S.E.24.  
 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., 40 Minford Gardens, W.14.

- 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.  
 1940 \*Cramer, Johannes D. W., 395 Zephyr Street, Denver, 26, Colorado, U.S.A.  
 1940 Cramer, Mrs. (B. N. Shepherd), ditto.  
 1944 \*Cranfield, Mrs. I. E. (Miss Bolton), 30 Bramley Way, West Wickham, Kent.  
 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., 125 Crescent Lane, Clapham Park, London, S.W.4.  
 1938 Curry, T. G., 40 The Drive, Barking Essex.  
 1956 \*Curtis, E. W., S.D.H., Curator's House, Botanic Gardens, Glasgow, W.2.
- 1955 Dahampath, U. M. P., C., University Park, Peradeniya, Ceylon.  
 1954 Dalgeish, J., The Flat, Sudley, Mossley Hill Road, Liverpool, 18.  
 1953 Dally, H. R., Guernsey Plants Ltd., Guernsey, C.I.  
 1927 -Dandy, J. E., M.A., F.L.S., "Rowans," Grove Road, Tring, Herts.  
 1918 \*Danes, Mrs. V. M. (Bell), 5 Lime Close, Burgh-le-Marsh, Skegness, Lincolnshire.  
 1960 Darbyshire, P. J., 17 Vernon Place, Canterbury, Kent.  
 1965 -Davenport, R., 18 Thornes Road, Thornes Park Nursery, Thornes, Wakefield, Yorks.  
 1947 Davenport, W., Court Lees School, Godstone, Surrey.  
 1967 -Davidge, R., Palavas, Hatch Close, Addlestone, Weybridge, Surrey.  
 1941 Davidson, Miss I. M., 37 Westmorland Road, Sale, Cheshire M33 3QX.  
 1938 \*Davies, H. F., C., Ewanrigg Nat. Park, c/o Nat. Park Board, Salisbury, Rhodesia.  
 1940 -Davies, P. W. C., S. of Parks, 20/22 St. George's Chambers, Merrial Street, Newcastle-under-Lyme, Staffordshire.  
 1919 Davies, Miss R. A. (See Mrs. Bysouth).  
 1951 -Davies, R. S., Hawthorn Nursery, Lower Common, Longden, Nr. Shrewsbury.  
 1931 Davis, H. T., 119 Talbot Hill, Brislington, Bristol 4.  
 1922 \*Davis, Mrs. (Miss O. Rudolph), 3 Dean Road, Cricklewood, London, N.W.  
 1974 -Dawes, M. J., 3 Oak Lodge, 18 Oakhill Road, London, S.W.15.  
 1944 \*Dawson, D., 50 Blandford Avenue, Oxford.  
 1948 -Dayson, F. G., 34 Forest Row, Roebuck, Stevenage, Herts.  
 1937 Dean, G., D. of Parks and Res., Auckland City Council, Private Bag, Auckland, New Zealand.  
 Dean, H. A., Stonehouse Farm, Greenmount Lane, Bolton, Lancs.  
 1958 Dean, P. J., 7 Lower Park Terrace, Pontypool, Monmouthshire, S.W.  
 1936 \*Dean, R. E., Regional Grounds Maintenance Officer, Reg.H.Q., Dept. of Env., Lawnswood, Leeds, 17.  
 1964 -Deans, R. F., 4 Church Road, Silsoe, Nr. Bedford, Beds.  
 1960 -Deans, T., N.D.H., Reaseheath, Nantwich, Cheshire, CW5 6DF.  
 1938 De Clerq, L., Rue de Gand, 227 Mont St. Amand-Gand, Belgium.  
 1964 Dennis, Miss M. J. (See Mrs. Griffin).  
 1947 -Denys, Mrs. A. G. (Buller), Wattle Cop, Blackden, Goostrey, Cheshire.  
 1960 Derrick, A. F., 20 Tern Gardens, Cranham, Upminster, Essex.  
 1924 De Troyer, Ch. L., D., Grand Etablissement Horticole de Wolverthem, Les Bruxelles, Belgium.  
 1954 -De Winter, Dr. B., Bot. Res. Inst., Private Bag x101, Pretoria, South Africa.  
 1960 -De Wolf, Dr. G. P., B.Sc., Ph.D., c/o Arnold Arboretum, Cambridge, Mass., U.S.A.  
 1960 -Dixon, A. G., 11 Milcote Avenue, Hove, Sussex, BN3 7EJ.  
 1909 Dixon, J., c/o Messrs. Bees, Sealand Nurseries, Chester.  
 1964 Diedrick, V., Royal Botanic Gardens, Hope, Kingston, 6, Jamaica.  
 1946 Dimes, Mrs. D. M., 48 Blake Avenue, New Malden, Surrey.  
 1961 -Dodds, B., Quality Farm, RR3, King, Ontario, Canada.  
 1964 -Dodge, M. H., Hilltop Road, Deer Island, Lakeside, Connecticut 06758, U.S.A.  
 1964 Dodge, Mrs. K. M. (Miss K. Burlingham), ditto.  
 1954 Donaldson, C., 1 Northfield Cottages, Univ. Field Stn., Wytham, Nr. Oxford.  
 1931 Donnelly, E. J., The Canons Lodge, Madeira Road, Mitcham, Surrey.  
 1934 \*Douglas, J., S., F.Inst.P.A., 52 Haining Road, Renfrew.  
 1935 \*Downes, W. F., 38 Uxbridge Road, Hanwell, W.7.  
 1945 Drewitt, C. E., 5 John Gay Road, Barnstaple, North Devon.

- 1944 Drive, Miss M. M. (See Mrs. M. J. Cross).  
 1926 Drummond, R. A., P.O. Box 8100, Causeway, Rhodesia.  
 1928 Duke, Miss M. M. (See Mrs. Wallace).  
 1935 \*Dumke, G. P. W., Berlin B.G., Berlin-Dahlem, Germany.  
 1957 -Dumont, T., 15 rui ch. de Tornaco, Cent, Luxembourg.  
 1953 -Dunball, A. P., N.D.H., D.I.P.A., 3 Crossways, Gidea Park, Romford, Essex.  
 1953 -Duncan, C. A. A., P.O. Box 854, Grand Cayman Island, Brit. West Indies.  
 1958 Dunk, Miss A. D. (See Mrs. Sceats).  
 1957 Dunn, P. G., Dep. P. Supt., Llandudno, 10 Tan-y-Berllan, Deganwy, Caerns.  
 1970 Dunwood, P. W., 84 Greenfields Avenue, Appleton, Warrington, Lancs.  
 Durrand, A. M., c/o Town Engineer, P.O. Box 70, Kitwe, Zambia.  
 1939 Dusing, G., Sansouci B. G., Potsdam, Germany.  
 1968 -Dyall, S. W., 80 Woking Road, Cheadle Hulme, Cheadle, Cheshire.  
 1934 -Dyer, R. A., D.Sc., Bot. Res. Inst., Private Bag x101, Pretoria, South Africa.  
 1961 -Dyke, D., Roush Lodge, Nuneham Park, Nuneham, Courtney, Oxon.
- 1912 Eady, G. H., "Aburi," Clyffe, Dorchester, Dorset.  
 1945 \*Eady, Miss M. C., Claydon House, Buckingham, Bucks.  
 1946 \*Eaton, H. J., N.D.H., Director, Rosewarne Experimental Station, Cornwall.  
 1972 Eccleston, K.,  
 1948 -Edwards, D. G., D.F.C., Sundance, Yapton Road, Barnham, Bognor Regis, Sx.  
 1947 \*Edwards, T. H., 190 Seaview Road, New Plymouth, Taranaki, N.Z.  
 1966 Edwards, R. K., 64 Erpingham Road, Putney, London, S.W.15.  
 1951 Egerton, J. A., 6 London Road, Holmes Chapel, Crewe, Cheshire.  
 1936 Eickhorst, M., Rangsdorf, c/Berlin, Seebhdallee, Telteus, Germany.  
 1955 Ekanayaka, D. T., B.Sc.(Hons.), B.G., Peradeniya, Ceylon.  
 1919 \*Ellis, Miss C. F. (See Mrs. Somers).  
 1934 Elphick, G., Myrtle Cottage, Ide Hill, Sevenoaks, Kent.  
 1964 -Elsley, J. E., B.Sc., 7766 Keswick, St. Louis, Missouri Botanical Garden, 63119, U.S.A.  
 1956 -Elton, T., 114 Moreton Road, Bushbury, Wolverhampton, MV10 8LB.  
 1972 Emerton, J.,  
 1966 -Endall, J.,  
 1912 \*Endres, H. W., 10140 Fieldcrest Lane, Ladve, St. Louis, 24, Missouri, U.S.A.  
 1928 England, J. W., S., Parks Dept., Merthyr Tydfil, Wales.  
 1932 \*English, R. J., 279 Stockingstone Road, Luton, Beds.  
 1948 \*Eperon, Miss K., N.D.H. (See Mrs. J. Clark).  
 Ercoli, Mario, Via—Girolamo Rossi, 27, Bordighera, Italy.  
 1969 -Esmonde, A. J. G., Chambre 880, Trepode C, Cite Université de Ranaiel, 118 Rte de Narbonne, 30177 Toulouse, France.  
 1939 Eugenio, Lagorio, Corso Monte Carlo, 33 La Mortola, Ventimiglia, France.  
 1935 \*Eul, F. H., N.D.H., F.Inst.P.R.A.(Dip.), P.P.Inst.P.R.A., S., Bourne Cottage, Bourne Road, Bexley, Kent.  
 1962 -Evans, D. T., 13 Sefton Road, Hoole, Chester.  
 1938 Evans, H. R., P.O. Box 100, Molo, Kenya.  
 1947 Evans, Mrs. I., Pitt Farm, Harberton Ford, Nr. Totnes, South Devon.  
 1952 -Evans, K., N.D.H., Undergraduate School of Applied Biology, Univ. of Bradford, Great Horton Road, Bradford, 7.  
 1964 -Evans, M., 19 Gattton Street, Farrer, A.C.T., 2607, Australia.  
 1945 \*Evans, Miss M. J. B. (See Mrs. J. A. Letch).  
 1969 Evemy, D. G., 4 Browning Avenue, Hanwell, Ealing.  
 1974 Everett, Paul, P.O. Box 1, Tinana, 4650, Queensland, Australia.  
 1927 †\*Everett, T. H., M.Sc., N.D.H., New York B.G., Bronx Park, N.C., U.S.A.  
 1971 -Everett, Mrs. E. J., 2 Craneford Close, Twickenham, Middlesex, TW2 7SD.  
 1928 \*Everitt, W., 1 Mayfair, Ganteaume Crescent, East London, S.A.  
 1937 \*Ewart, J. W., Myers Road, Otumatai, Tauranga, New Zealand.
- 1932 \*Farley, G. C., 5 Harringay Gardens, London, N.8.  
 1928 -Farmer, J. E., S., 17 Millstream Gardens, Wannock, Polegate, Sussex.  
 1923 -Farr, B.,  
 1953 -Farrar, T. H., 39 Fielden Close, Ducklington, Witney, Oxfordshire.  
 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.  
 1937 Fisher, J. M., S., Hampton Court, East Molesey, Surrey.  
 1957 Fleming, J. F., 177 Brighton Road, Derby.  
 1915 †\*Flippance, F., F.L.S., The Hoaths, Station Road, Haslemere, Surrey, GU27 2PD.  
 1928 \*Floto, E. V., Brovaenget 11, 2700 Bronshoj, Denmark.  
 1958 Floyer, Miss R. A., now Mrs. R. A. Nicholson, P.O. Box 3, Mbubu, Tanzania.  
 1924 Flynn, G. O., Bede Home, College Grove Road, Wakefield, Yorks.  
 1949 -Foate, C. D., Knutsford, Gt. Barton, Bury St. Edmunds, Suffolk.  
 1961 Foote, L. A., 24 Downs Road, Beckenham, Kent.  
 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.  
 1940 Foste, L. J., M.Sc., Agric. Dept., Kuching, Sarawak, Malaysia.  
 1946 -Fraenkel, Miss E. R. (See Mrs. Gibson).  
 1967 -Frankland, B. V., N.D.H., West Lodge, Danson Park, Bexleyheath, Kent.  
 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., Silver Birches, Catisfield Road, Fareham, Hants.  
 1956 Fugard, R. L., c/o Parks Dept., St. George Park, Port Elizabeth, South Africa.  
 1918 Fuller, Miss E. (See Mrs. P. Snelling).  
 1953 -Fuller, G. M., 25 Victoria Road, New Plymouth, New Zealand.  
 1938 Fysh, P., 8 The Goffs, Eastbourne, Sussex.
- 1962 Gabe, M., 44 The Pines, Whitehall Road, Woodford Green, Essex.  
 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.  
 1952 -Galloway, I. D., A.H.R.N.Z., Director of Parks and Reserves, P.O. Box 2199, Wellington, New Zealand.  
 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.  
 1972 Gilbert, T. E., Sandford House, Springfield Road, Swindon, Wilts.  
 1962 -Giles, C. J., 25 Reginald Road, Southsea, Hants., PO4 9HL.  
 1960 -Gilkison, D. S., c/o Parks Dept., Civic Centre, Scunthorpe, Lincs.  
 1923 Gill, B., Gills Nurseries, Penryn, Cornwall.  
 1946 †-Gilmour, J. S. L., M.A., F.L.S., V.M.H., 5 St. Eligius Street, Cambridge.  
 1952 -Gilmour, W. N. G., N.D.H., F.Inst.P.R.A.(Dip.), Deputy Manager, City of Sheffield Parks Dept., Sheffield. S8 9FL.  
 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., 3 Clyford Road, Ruislip Gardens, Middlesex.  
 1969 Goodyear, S. A., Parks Dept., City Engineers and Surveyors Office, 7 Southernhay West, Exeter.
- 1932 Gordon, J. D., c/o Elder Park, Glasgow.  
 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.
- 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.  
 1947 Greatrex, T. J., P.O. Box 660, Lusaka, North Rhodesia.  
 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.  
 1937 \*Groves, G. R., O.B.E., A.H.R.H.S.. Botanical Gardens, P.O. Box 100, Hamilton, Bermuda.
- 1932 Gunn, A. Findlay, 204 Oak Avenue, P.O. Broughton, Ferndale, Randburg, Transvaal, South Africa.  
 1961 Gunn, W. A. G., Johannesburg Park Dept., P.O. Box 2824, Johannesburg, Transvaal, South Africa.  
 1899 Gutteridge, H. E., Perran Bay Hotel, Perranporth, Cornwall
- 1946 -Hack, H. R. B., 33 Manor Road, Henley-on-Thames, Oxfordshire.  
 1954 -Halhead, J., 2(A) Rosehill Park, West Sutton, Surrey.  
 1931 Halik, R., Charles University, Prague, Czechoslovakia.  
 1971 -Hallsworth, C. D., 10 The Mount, Stanford-le-Hope, Essex.  
 1933 -Hall, H., 17 Cooperation Street, Vredendal, C.P., S.A.  
 1952 Hamblin, I. C., Area Office, D.O. Env., Colchester, Essex.  
 1896 Hammarberg, L. M., Gotgatan 111, Stockholm, Sweden.  
 1932 Hammarberg, O. M., Gotgatan, 111, Stockholm, Sweden.  
 1945 Hammond, Mrs. M., Myrtle Cottage, Castle Street, Porchester, Hants.  
 1936 Hampton, Miss N. (See Mrs. Beale).  
 1916 \*Hansen, C. Bekker, c/o Soci t  du Nadal, Quelimane, Portuguese East Africa,  
 1954 Hardie, R. M., c/o Burnley Horticultural College, Swan Street, Burnley, Victoria, Australia.
- 1935 Hardman, R. E., c/o Municipal Parks, Bulawayo, S. Rhodesia.  
 1933 -Harper, A. E., S., Westleigh, 10 Pembroke Gardens, Appleton Park, Warrington, Lancs.
- 1920 \*Harper, Miss E. M. (See Mrs. Ash).  
 1919 \*Harper, Miss K. M. (See Mrs. Bintner).  
 1964 -Harrington, M. D., Aldon, 55 Park Hill Road, Otford, Sevenoaks, Kent.  
 1949 Harrington, P., c/o Parks Office, Lampton Park, Lampton Road, Hounslow, Middlesex.
- 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.  
 1947 Harris, F. G., 4 Homelands Copse Cottages, Fernhurst, Nr. Haslemere, Surrey.  
 1958 -Hart, A., A.I.L.A., A.I.P.A.(Dip.), 15 Dean Hill Road, East Sheen, S.W.14.  
 1966 -Hart, C., 10 Surrey Street, Ryde, Isle of Wight.  
 1967 Hart, M., c/o Greenwich Parks Dept., Woolwich Town Hall, S.E.27.  
 1917 Hart, Miss R. (See Mrs. Jameson).  
 1951 Hart, Mrs. V. (Miss V. Hudson), 63 Exmouth Road, South Ruislip, Middlesex.  
 1956 -Harvey, T. D., Plovers Hill, Strumpshaw, Norwich, NOR 77Z.  
 1946 Haskell, Miss J., The Rectory, Stoke Rochford, Nr. Grantham, Lincs.  
 1973 -Hassan-King, Abdul R., 1 Orange Street, Fourah Bay, Freetown, Sierra Leone, W. Africa.

- 1923 Hawkins, F., Min. of Agriculture (Research Division), Dar-es-Salaam, Tanganyika.
- 1925 \*Hayes, T. R., M.Sc., A.I.T.C.A., c/o Limuru Girls' School, Private Bag, P.O. Limuru, Kenya.
- Haywood, L. (address unknown)
- 1950 -Haywood, P. A., Cert.L.D.(U.C.L.), A.I.L.A., 5 Rowan Park, Quarry Lane, Christleton, Chester.
- 1939 Hazelwood, F. E., 15 Ray Road, Epping, New South Wales, Australia.
- 1968 Hebb, R. S., 1090 Centre Street, Jamaica Plain, Mass. 02130.
- 1968 Hebb, Mrs. W. P., ditto.
- 1947 \*Hebden, F. J., N.D.H., F.I.P.A.(Dip.), M.B.E., Toreaves, The Highway, Luccombe Village, I.O.W.
- 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.
- 1964 -Hellewell, J. D., 1 Nursery Lane, Harlow Hill, Harrogate, Yorks.
- 1948 \*Helm, J. D., "Woodvale," 15 Llandudno Rd., Penrhyn Bay, Llandudno, Caerns.
- 1946 \*Helsing, Miss N. J. (See Mrs. Nelson).
- Hemsley, J. H., 4A Littleham Road, Littleham Cross, Exmouth, EX8 2QG.
- 1928 Hendon, L. C., 5 Churchill Road, Exmouth, Devon.
- 1960 -Henshaw, H., Crawley Lodge, Kings Park, Perth, 6005, W. Australia.
- 1972 -Herscovitch, A., P.O. Box 3287, Bat Yam, Israel.
- 1951 -Heughes, I. M., 6 Ockham Street, Lynwood, 6155, W. Australia.
- 1949 Hey, G. E. W., Imperial War Graves Comm., Ypres, Belgium.
- 1968 -Heywood, H. G., Dep. Pks. Supt., Cemetery Office, Manchester Road, Warrington, Lancs.
- 1954 Heyworth, J., 18 Market Place, Ramsbottom, Lancs.
- 1935 Hibbert, J. R., S., The Gardens, Gunnersbury Park, Acton, W.3.
- 1961 -Hickman, N. C., 101 Higham Lane, Nuneaton, Warwickshire.
- 1919 \*Higgott, O. A., 108 Secor Road, Scarsdale, New York, U.S.A.
- 1963 -Higham, J. D., 30 Weston Crescent, Aldridge, Staffs., WS9 0HB.
- 1930 Hildyard, H. C., S., 304 Linthorpe Road, Middlesbrough, Yorks.
- 1961 Hill, B., D.I.P.A., 251 Wigton Road, Carlisle, Cumberland.
- 1929 Hillier, Miss C. (See Mrs. Whibley).
- 1971 -Hilton, C., 2 Queensbury Place, Friars Lane, Richmond, Surrey.
- 1948 -Himson, A., Buckland, Tasmania 7271, Australia.
- 1948 \*Himson, Mrs. (Miss P. Weston), ditto.
- 1968 -Hindmarch, C., 22 Tavistock Close, Great Woodley Estate, Romsey, Hants.
- 1948 -Hingston, J. A., N.D.H., S., 139 Tadcaster Road, Dringhouses, York, Y02 2QJ.
- 1949 Hingston, Mrs. (Miss J. Sharps), ditto.
- 1960 -Hitchcock, A. G., University of Botswana, Lesotho, P.O. Luyengo, Swaziland.
- 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.
- 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., 70 Kew Green, Kew, Surrey.
- 1973 -Holmes, R. G., 70 Kew Green, Kew, Richmond, Surrey.
- 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.
- 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.

- 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 Carlbury 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.  
 1964 -Hyde Trutch, Miss J. A. (See Mrs. Popham).  
 1935 -Hyland, G. A., S., D.Inst.P.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., Grayfields Lodge, Thornhill Gardens, Hartlepool, Co. Durham.  
 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, Ridgegate 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.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).  
 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., 8 Meadow Side, Logger Heads, Market Drayton, Shropshire.  
 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 -Kettle, P. A., c/o Caneel Bay Plantation, Virgin Islands, St. Thomas, U.S. 0080.  
 1964 -Kilby, P., The Flat, Hoblingwell Wood Rec. Ground, Leasons Way, St. Pauls Cray, Kent.
- 1957 -Killick, Dr. D. J. B., 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 Klaatborg, 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, Hillington 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.
- 1938 Lagoria, E., La Mortola, Ventimiglia, Italy.  
 1933 Lake, E., 36 Gledwood Crescent, Hayes, Middlesex.  
 1941 -Laking, L., B.S.A., L.L.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., 60 Parkway, Yallourn, Vic. 3838, 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.

- 1952 -Littlewood, G., 177 Chesterfield Road, Matlock, Derbyshire.  
 1948 -Lockley, R. E., 20 Heather Close, Thurston, Nr. Bury St. Edmunds, Suffolk.  
 1930 -Lorensi, 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., Efford 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.  
 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.
- 1930 Mann, J. A., D., Newcastle Parks Dept., Newcastle.  
 1969 -Mann, R. B.  
 1938 Mansell, P. W., "Meliden," Queens Road, Teddington, Middlesex.  
 1970 -Marchant, C. D., Ph.D., 3071 West 28th Avenue, Vancouver, 8, British Columbia.  
 1950 Marden, J. A., 250 Ladysnot, Harlow, Essex.  
 1964 -Marshall, R., 6 Waterloo Way, Bredon, Tewkesbury, Glos.  
 1958 Marshall, W., S., 47 Sandwich Road, St. Neots, Hants.  
 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.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 McCartan, J., S., The Bungalow, Coronation Gardens, Rhyl, Flints.  
 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.

- 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. Karlisr., 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.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 Morrissey, 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).
- 1935 Mottier, P., Avenue Leopold-Robert 83, La-Chaux-de-Fonds, Switzerland.
- Calkins, Mrs. H., Acquisitions Library, Morton Arboretum, Lisle, Illinois, U.S.A.
- 1937 \*Mowforth, R. K., N.D.H., The Farm Institute, Rodbaston, Penkridge, Staffs.
- Mugford, A. J., c/o 132 The Chase, Rayleigh, Essex SS6 8QP.
- 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, Clonagal, 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.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 Sqare, 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., Bot. Res. Unit, Box 471, Stellenbosch, C.P., S.A.
- 1927 Orchard, O. B., "Orwinton," New Road, Broxbourne, Herts.
- 1952 O'Reilly, M., 2 Dalton Avenue, Bewsey, Warrington.
- 1928 -Ovenden, S. F., 34 Station Road, Minster, Ramsgate, Kent.
- 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., 1 Arden H., Rear of Middlesex Cricket G., East End Road, Finchley, N.3.
- 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., 36 Grosvenor Court, London Road, Morden, Surrey.
- 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., Flat 1, 8 Collington, Bexhill-on-Sea, Sussex, TN39 3QA.
- 1960 Pearce, D. G., T.A., Smethwick Park, Cemeteries and Allotments Dept., Greater London.
- 1933 \*Pearce, W., Pound Farm, Brockmanton, Nr. Leominster, Herefordshire.
- 1965 -Pearson, D. J., 26 North Crescent, North End, Durham City.
- 1959 -Pedley, A., D.I.P.A., 10 Parklands Avenue, Leamington Spa, Warwickshire.
- 1967 -Penberthy, B., 15 Atlantic Terrace, Camborne, Cornwall.
- 1950 -Perkins, B. L., F.L.S., Port Reitz, P.O. Box 9807, Mombasa, Kenya.
- 1925 -Perkins, H. A. T., 16 Acheson Road, Hall Green, Birmingham, 28.
- 1940 \*Pettigrew, Capt. A. H., S., Guarfild Court, Nr. Malvern, Worcs.
- 1972 -Phillips, B., c/o Merristwood Institute, Guildford, Surrey.
- 1972 -Phillips, Mrs. S. M., Hillcrest Avenue, Chertsey, Surrey.
- Pierce, A., Dept. of Agric., For., P.O. Box 834, Hamilton, Bermuda.
- 1964 Pierce, D. N., 28 West Hall Road, Richmond, Surrey.
- 1908 Pieris, W. I., Rubber Research Scheme, Culloden, Neboda, Ceylon.
- 1933 Pinnion, W. S., 42 High Road, West Felixstowe, Suffolk.
- 1960 -Pitcher, B. F., 11 Crestbrook Place, Green Lanes, Palmers Green, London, N13 5SB.
- 1968 Pitt, R., 36 Walpole Road, Runcorn, Cheshire.
- 1942 \*Plummer, Miss E. (See Mrs. Melville Towers).
- 1964 -Popham, C., Downhouse Cottage, Holly Bush Lane, Stoke Bishop, Bristol BS9 1JZ.
- 1964 Popham, Mrs. J. A. (Miss Hyde Trutch), ditto.
- 1930 \*Porter, W., 30 Rockstone Road, Bassett, Southampton.
- 1928 \*Poulter, C. G. W., 22 Burnside Row, Kirkmichael, Ayrshire.
- 1958 -Powell, C. U., Dolphin Cottage, 17 Police Station Road, Hersharn, Surrey.
- 1957 Powell, M. C., B.Sc., Ph.D., 16 Walstenbury Road, Rustington, Sussex.

- 1937 Poy, A. L., 14 Rue des lices, Blois, L. et Ch., France.
- 1972 Preston, G. H., A.H.R.H.S., F.L.S., 251 Hinton Way, Great Shelford, Cambridge, Cambs., CB2 5AN.
- 1962 -Preston, W. T., April Cottage, Walmer Gardens, Ealing, W.13.
- 1949 -Price, J., "Greenbank," Sully Road, Penarth, Glam., CF6 2TZ.
- 1967 -Pring, Miss G. M., 24 Shaftesbury Road, Richmond, Surrey.
- 1956 -Pringle, D. J., P.O. Box 40386, Nairobi, Kenya.
- 1956 Pringle, Mrs. D. (Miss D. M. Newton). Address as above.
- 1925 \*Pritchard, W. B., 17 Maelgwyn Road, Llandudno, Caernarvonshire, North Wales.
- 1957 Prive, A. E., 12 Bis Avenue, Outribon, Vilomomble, Seine, France.
- 1937 \*Prockter, N. J., F.L.S., 110 Malthouse Rd., Southgate, Crawley, Sussex. RH10 6BH.
- 1937 Prolluis, Karl, Vichels, Post Neristad (Dosse), Germany.
- 1970 Protheroe, J., Barn Cottage, Redlands, Highworth, Wiltshire.
- 1946 -Puddle, C. E., M.B.E., V.M.H., Bodnant Cottage, Tal-y-Cafn, Denbighshire, Wales.
- 1942 -Purchas, Mrs. F. Brooks (Milburn), The Thatched House, Roundwood Lane, Haywards Heath, Sussex.
- 1908 Pyman, G. W., 472 Pinner Road, Pinner, Middlesex.
- 1944 Pymount, E. W., 234 Painswick Road, Gloucester.
- 1906 Race, A., Harewood Nurseries, Darlington, Durham.
- 1962 -Rainey, J., M.C., 33 Diamond Gardens, Finaghy, Belfast.
- 1963 -Ralston, D., Castle Harbour Hotel, Bermuda.
- Ramsbottom, Miss M., 34 Ennerdale Road, Kew, Richmond, Surrey.
- 1964 Ranasinha, G. O. W., 95 Udamadapotha Road, Asgiriya, Kandy, Ceylon.
- 1925 Ransom, D. H., Ransom & Son, Ransom's Gdn. Centre, Faldovet-Gorey, Jersey.
- 1959 Ransom, D. P., ditto.
- 1951 -Rattenbury, H. C. P., 36 Bodiam Road, Ipswich, Suffolk.
- 1951 -Ravenscroft, A., Parks Dept., Municipal Offices, Harrogate, Yorks.
- 1972 \*Rawlings, S. W., A.R.P.S., 189 Castle Lane West, Bournemouth, BH9 3LD.
- 1971 Reed, J., 38 Heathcombe Road, Bridgwater, Somerset.
- 1906 Renton, J. S., Provincial Nurseries, Essondale, B.C.
- 1941 \*Redman, J., N.D.H., Royal Bot. Gdns., Box 399, Hamilton, Ontario.
- 1955 Riach, D., D.S., Supt., Parks and Recs., Parks House, Dixon Street, Mastertor, New Zealand.
- 1967 -Rich, A., Inst.P.R.A., 46 Aberdulais Road, Gabalfa, Cardiff, CF4 2PJ.
- 1949 Richardson, C. L., D.I.P.A., Deputy Parks Supt., c/o Parks Dept., Cheltenham.
- 1931 \*Richardson, L. A., Garden Craft Nursery, 134 Hector Street, Osborne Park, 6017, Western Australia.
- 1969 -Ringia, W. J., Dar-es-Salaam City Council, P.O. Box 9084, Dar-es-Salaam, Tanzania.
- Rippon, A. V., 567 Moore Road, Durban, South Africa.
- 1958 -Risely, T. F., N.D.H., D.I.P.A., 1 Harvey Road, Dunstable, Bedfordshire.
- 1968 Roberts, J., 10 Little Lane, Ravensthorpe, Northants.
- 1954 -Roberts, M. S. F., 8 Briars Close, Nuneaton, Warwickshire.
- 1928 -Roberts, S. J., 1 Cilymaenllwyd Fach, Pwll, Llanelli, Carmarthenshire.
- 1923 Roberts, W., 53 Eastridge Way, Tonbridge, Kent.
- 1922 Robertshaw, P., 80 Chelsea Drive, Durban North, Natal, South Africa.
- 1973 -Robinson, A., 5 Ballyoran Hgts., Portadown, Co. Armagh, N. Ireland.
- 1937 †\*Robinson, G. W., V.M.H., A.H.R.H.S., A.L.S., M.A., 17 Knoll Drive, Styvechale, Coventry.
- 1931 Robinson, J. A. M., 17 Kingwood Place, Abergele, North Wales.
- 1965 -Robinson, K., D.I.P.A., "Woodleigh," High St., Woolton, Liverpool, L25 7TO.
- Robson, N. K. B., B.Sc., Ph.D., F.L.S., c/o Brit. Mus. Bot. Dept., Cromwell Road, S.W.7
- Rockwell, Miss G. D. (See Mrs. Sheat).
- 1948 -Roddick, P. W., 44 Davids Drive, Wingerworth, Derbyshire.
- 1948 -Roddick, R. S., 2 Boundary Drive, Hunts Cross, Liverpool 25.
- 1956 Rogers, W. M., 14 Crummer Road, Grey Lynn, Auckland, New Zealand.
- 1951 Rodway, F. G., B.G., Glasgow, W.2.
- 1937 Rolff, S. B., Ljungbyhed, Sconia, Sweden.
- 1948 -Rolls, E. V. H., A.I.L.A., A.Inst.P.R.A., "Summerlea," Breach Hill, Chew Stoke, Nr. Bristol.

- 1939 \*Ronco, L., Bordighera Piani, Borghetto, Italy.  
 1958 -Rooke, I. G., 97 Grove Road, Rayleigh, Essex.  
 1965 -Roome, C. S., 140 Willow Tree Lane, Yeading, Hayes, Middlesex.  
 1963 Rose, A. J., A.Inst.P.R.A.(Dip.), The Lodge, Gardeners Drive, Newsham Park, Liverpool 6.  
 \*Ross-Craig, Miss S. (Mrs. J. R. Sealy), 15 Grosvenor Road, Richmond, Surrey.  
 1934 \*Rose, W. A., Colonial Research Inst., Freeport, Grand Bahama, Bahamas.  
 1972 Rotherham, J. E., 3 Dale Road, Dronfield, Sheffield, S18 6YG.  
 1938 Rottgardt, K. H., Staatliche Botanischer Garten, Hamburg, 36, Germany.  
 1961 Rover, Miss H. (Mrs. Self), 57 Priory Gardens, Highgate, London, N.6.  
 1920 Ruck, E. A., 48 Burns Way, Heston, Middlesex.  
 1930 \*Rudd, C. W., A.H.R.H.S., D.I.P.A., 7 Crescent Rise, Wood Green, N.22.  
 1936 Rudge, H. C., Parks Dept., Birmingham.  
 1922 \*Rudolf, Miss O. (See Mrs. Davis).  
 1932 \*Rumsey, R. H., Old Northern Road, P.O. Box 1, Dural, N.S.W. 2158, Australia.  
 1967 -Russell, T. A., Greenside, Kirk Yetholm, Kelso, Roxburghshire.  
 1928 \*Rutter, W. G., H.G., University Gardens, Edgbaston, Birmingham 15.  
 1935 Ruyter, B. J. de, 96 Tuinstraat, Tilling, Holland.  
 1957 -Ryder, F. P., Parks Dept., Cyfartha Park, Merthyr Tydfil, Glamorganshire.  
 1946 Rymer, Miss N. B. (See Mrs. Holcroft).  
 1948 Rzadkowska, Miss I. (See Mrs. Liebich).
- 1958 -Sales, J., N.D.H., Ledwell Lodge, 4 Burford Road, Cirencester, Glos.  
 1957 †Salisbury, Sir Ed., C.B.E., D.Sc., F.R.S., Croindere, Strandway, Felpham, Bognor Regis, Sussex.  
 1964 -Salter, B. J., Upper Garage Flat, "Heathfield," Coombe Lane, Croydon, Surrey.  
 1946 Sampson, Miss J. (See Mrs. R. C. Tucker).  
 1912 †\*Sargeant, T., 25 Cale Road, Haywards Heath, Sussex.  
 1950 Saunders, Miss B. J., 40 Cowley Road, London, S.W.14.  
 1972 -Savage, T., 12 Fifth Avenue, Burnley, Lancs.  
 1951 Saville, B. R., c/o Llandaff Tech. College, Western Avenue, Cardiff, S. Wales.  
 1923 -Saville, D., 6 Ennerdale Road, Kew Gardens, Richmond, Surrey.  
 1970 Sawyer, C. F.  
 1967 -Saxon, E., H.G.,  
 1924 \*Sayer, H. W., 17 Landcross Drive, Abington Vale, Northampton.  
 1962 -Sayers, C. D., 47 Hawthorn Terrace, Durham City, DH1 4EL.  
 1940 -Sayers, D. W., 94 Potters Lane, Burgess Hill, Sussex.  
 1960 -Scales, K. W., The Lodge, Belmont Park, Blackboy Road, Exeter EX4 6SS.  
 1967 -Scarr, E. D., N.D.H.(S.A.), 1 Medway Road, Westville 3680, Natal, South Africa.  
 1967 -Scarr, Mrs. (Miss J. Nau).  
 1968 -Scarr, S.  
 1958 Sceats, Mrs. (Miss A. D. Dunk), 29 Wilmington Avenue, Chiswick, W.4.  
 1945 Scott, Miss C. (See Mrs. Bundy).  
 1902 Seaborne, R. S., Penrhas Gardens, Exeter Road, Dawlish, South Devon.  
 1955 -Seager, T. J., Alexandra Park, Oldham, Lancashire.  
 1967 \*Sealy, J. R., B.Sc., F.L.S., 15 Grosvenor Road, Richmond, Surrey.  
 \*Sealy, Mrs. J. R. (See Miss S. Ross-Craig), ditto.  
 1923 -Semple, J. A., 82 Beechwood Road, Wellesley, Mass. 02181, U.S.A.  
 1949 \*Senogles, F., David's Well, Westcot Lane, Sparshott, Wantage, OX12 9PZ.  
 1944 \*Sharps, Miss F. A. (See Mrs. Ashby).  
 1949 Sharps, Miss J. (See Mrs. Hingston).  
 1938 -Shaw, F., N.D.H., Hort. Officer, Shire Hall, Cambridge, and 12 Warren Road.  
 1957 -Shea, J. O., 2 Ferring Close, South Harrow, Harrow, Middlesex.  
 1939 \*Sheat, W. G., Bali H. Nur., P.O. Box 174, Hillcrest, Natal, S.A.  
 1940 Shepherd, Miss B. N. (See Mrs. Cramer).  
 1968 Shepherd, I. L. M., 23 Denmark Road, Shevington Vale, Nr. Appley Bridge, Lancashire.  
 1953 Shepherd, M. W., 23 Denmark Road, Exeter, Devon.  
 1960 Sherk, L. C., Evans Avenue, 700 Etobicoke 653, Port Colborne, Ontario, Canada.  
 1936 Shewan, H. T., Dept. of Horticulture, Asamankere, Gold Coast, West Africa.  
 1940 \*Short, J. G., Curator, Victoria University, Wellington, New Zealand.  
 1968 -Shutler, G., 101 Field Place Caravan Park, New Milton, Hants. BH25 7RD.  
 1952 -Sieben, J. R., Supt. of Parks, P.O. Box 49, Queenstown, Cape Province, S. Africa.

- 1937 Simpson, A. J., 244 Custlefield Avenue, Toronto, 12, Ontario, Canada.  
 1970 -Sinnott, N. H., 6 Eaton Rise, Ealing, London, W5 2ER.  
 1968 -Skan, Miss M. I., M.B.E., 147 Lichfield Crt., Sheen Rd., Richmond, Sy. TW9 1AY.  
 1946 Sivyver, G. R., 30 Claygate Lane, Esher, Surrey.  
 1948 \*Slade, W. J., H.G., Napsbury Hospital, Nr. St. Albans, Herts. (North Lodge)  
 1929 -Slinger, L., The Slieve Donard Nursery Co., Newcastle, Co. Down, N. Ireland.  
 1954 Smalley, E., Old Surrey Hall, East Grinstead, Sussex.  
 1967 -Smith, A. R., 49 Westbourne Road, Halesowen, Worcestershire.  
 1959 -Smith, G. D., Klein Welgemeend, Lincoln Road, Lakeside, Cape Town, S.A.  
 1968 -Smith, G. F., Pukeiti, Rhododendron Trust, R.D., 38, Okato, Taranaki, N.Z.  
 1971 -Smith, J. A., 113 Longfellow Green, Offmore Farm, Kidderminster, Worcs.  
 1963 Smith, J. D. H.,  
 1930 \*Smith, J., F.Z.S., Braemar Street End, Canterbury, Kent.  
 1933 Smith, James W., S., Public Parks, Cheltenham, Glos.  
 Smith, K., 6 Orchard Way, Eastchurch, Isle of Sheppey, Kent.  
 1945 Smith, Mrs. M. (née Cowell), B.Sc., N.D.H.  
 1949 -Smith, W. S., Flat 1, White House, Canal Gardens, Leeds, LS8 1DQ.  
 1964 \*Souster, J. E. S., N.D.H., F.L.S., c/o The Old Vicarage, Moulsoford, Wallingford, Berkshire.  
 1945 \*Souster, Mrs. (Miss R. M. Ambrose), 27 Holmlea Road, Goring-on-Thames, Reading.  
 1919 \*Sparrow, Sqd.Ldr., Retrd., J.W., M.M., 7 Potts House, Great Milton, Oxford.  
 1964 Spate, G., 12 Lucknow Road, Willenhall, Staffordshire.  
 1901 † Spooner, H., 4 Acacia Grove, Eccleston, Merseyside, WA10 5HD.  
 1946 -Sprague, Mrs. T. A., B.A., F.L.S., 7 Hatherley Road, Cheltenham, Glos.  
 1934 Spray, J. R., Eskbank Flower Farm, 49 Lothian Street, Bony Rigg, Midlothian.  
 1966 Sprunger, S., Starenstrasse 41, Basel 4000, Switzerland.  
 1924 \*Squibbs, F. L., 590 Newmarket Road, Cambridge.  
 1942 Squire, Mrs. M. W. (Tanner), 28 Colston Road, East Sheen, S.W.14.  
 1939 Stanion, R. O., Director, Nottingham Parks Dept., Nottingham.  
 1934 Stayner, F. J., C., Karov Gardens, P.O. Worcester, C.P., South Africa.  
 1973 Stanfield, G. T., 27 East Sheen Avenue, East Sheen, S.W.14.  
 1945 \*Stent, Miss H. J. (See Mrs. Albert).  
 1970 -Stevens, A. D., 3 Taylor Avenue, Kew Gardens, Richmond, Surrey.  
 1968 -Stevens, Miss E., N.D.H., Kennel Farm, Clarendon, Salisbury, Wiltshire.  
 -Stevenson, Miss J., 19 Dunstable Road, Richmond, Surrey.  
 1908 \*Stirling, E., Danelachan, Colliston, Nr. Arbroath, Scotland.  
 1927 † \*Stock, C. R., P.P.Inst.P.A., 14 The Mead, Beckenham, Kent, BR3 2PE.  
 1953 Stone, C., 87 Crescent Road, Toronto, Ontario, Canada.  
 1950 -Stone, G. E., "Amberley," Kenton, Exeter, Devon.  
 1932 -Stonebridge, G. W., 24 Walterbush Road, Chipping Norton, Oxon.  
 1959 -Storer, D. T. M., D.I.P.A., Parks Supt. House, Yew Tree Nurseries, Rossett, Nr. Wrexham, Denbighshire, North Wales.  
 1952 -Storey, W. E., 88 Latchmere Road, Kingston, Surrey.  
 1970 -Storr, T. R. B., 122A Kew Road, Kew, Richmond, Surrey.  
 1958 -Strabel, J. F., 135 Queen Road, Vicars Cross, Chester, CH3 5HF.  
 1948 -Straughan, R. E., N.D.H., Derbyshire Agricultural College, Morley, Nr. Derby.  
 1930 -Studley, E. W., F.I.P.A., A.H.R.H.S., 60 Southbrook Road, Langstone, Havant, Hants. PO9 1RN.  
 1973 -Stuttard, A., N.D.H., 20 Cecil Road, Muswell Hill, London, N.10.  
 1969 -Styles, P., 52 Cowper Road, Ham Common, Kingston, Surrey.  
 1969 -Summerwell, P. C., The Bungalow, St. Bridget Nurseries, Old Rydon Lane, Exeter, Devon, EX2 2TY.  
 1957 Sumner, R. J., 43 Churchfields Road, Beckenham, Kent.  
 1958 -Sutcliffe, T., Crosse Farm, Cheriton Bishop, Nr. Exeter, Devon.  
 1937 -Swift, H. W., c/o Fairchild Bot. Gdns., Miami, 44106, U.S.A.  
 1920 \*Syer, F. G., 90 Cromwell Avenue, Cheshunt, Herts.  
 1962 -Taber, D. W., 99 Holmwood Road, Cheam, Surrey.  
 1942 Tanner, Miss M. W. (See Mrs. Squire).  
 Tapson, O. V., Police House, East Ord., Berwick-upon-Tweed.  
 1941 Tarver, Miss B. M. (See Mrs. Laking).  
 1934 Taylor, A. J., c/o Starke-Ayres, Mowbray, Cape Town, South Africa.  
 1939 Taylor, G. E., 244 Sandycombe Road, Kew Gardens, Surrey.

- 1971 -Taylor, Sir George, D.Sc., F.R.S., F.R.S.E., F.L.S., V.M.H., Belhaven House, Dunbar, East Lothian.
- 1953 Taylor, H., The Mooring, Station Road, Invergowrie, Dundee.
- 1933 \*Taylor, Hubert, M.B.E., A.H.R.H.S., N.D.H., 8 Cotterill Road, Surbiton, Surrey.
- 1936 \*Taylor, J. C., Ontario Agric. College, Guelph, Ontario, Canada
- 1961 Taylor, Miss J. L. (See Mrs. B. Humphrey).
- 1947 -Taylor, J. O., N.D.H.(N.Z.), 2 Western Terrace, Christchurch 2, N. Zealand.
- 1940 Taylor, Miss R. (See Mrs. C. M. Jackson).
- 1969 Taylor, T. M.
- 1929 Teal, A. G., c/o Parks Dept., Town Hall, Merton and Morden, Surrey.
- 1953 -Tebby, P. A. C., A.S., 28 Fourth Avenue, Chelmsford, Essex, CM1 4HA.
- 1948 Templeton, J. G., c/o Com. War Graves Comm. (Caen Area), 106 Rue de Thurey, Fleury-sur-Orne, Par Caen (Calvades), France.
- 1957 -Tennakoon, S. B., Botanical Gardens, Hakgala, Central Province, Ceylon.
- 1961 -Thames, B. G., 102 Wembdon Road, Bridgwater, Somerset.
- 1963 Theron, M., Manager of Parks Dept., Box 4, Alberton, South Africa.
- 1903 Thomas, Ernest, 1514 Chestnut Street, Philadelphia, Pa., U.S.A.
- 1911 \*Thomas, H., Grange, Buccleuch Street, Innerleithen, Peeblesshire, Scotland.
- 1946 Thomas, J., Parks and Reserves Dept., Town Hall, Townsville, N. Queensland.
- 1958 Thomas, R. G., Horticulturist, Caneal Bay Plantation, Virgin Islands Nat. Park, St. John, U.S.V.I.
- 1944 \*Thompson, Miss E. K. G. (See Mrs. McCulloch).
- 1948 Thompson, G. B., 147 Beacon Lane, Whipton, Exeter, Devon.
- 1928 Thornicroft, I. V., Tinderbox, Blackman's Bay, Tasmania, 7152.
- 1964 Tickner, Miss L. (See Mrs. Gattrell).
- 1968 -Tietze, Miss P.C., 41 Caxton Road, Otley, West Yorkshire LS21 3LL.
- 1963 -Tyas, M., 1 The Lodge, Overbury, Tewkesbury, Glos.
- 1955 -Till, B. W., Dir. of Parks and Rec., Kempton Park Town Council, P.O. Box 13, Kempton Park, Transvaal, South Africa.
- 1949 Till, J. R., Knight Hill House, Padiham, Burnley, Lancs.
- 1915 Timmers, A., "Brambles," Hailey Witney, Oxon.
- 1946 -Tindall, H. D., M.B.E., M.Sc., M.I.Biol., N.D.H., F.L.S., c/o National College of Agric. Engineering, Silsoe, Bedfordshire.
- 1960 Toft, K G., 2 Westlecot Road, Swindon, Wilts.
- 1959 Tomlinson, D., Dip.Arb., 83 Blackstock Road, Stoke Newington, N.4.
- 1959 -Tomlinson, M. J., 20 St. Andrews Road, Southsea, Hants.
- 1954 Towle, P., c/o Parks Dept., Nottingham.
- 1967 -Townsend, D. H. W., 6 Manor Road, East Grinstead, Sussex.
- 1955 -Tregear, J. P., West Bank, 32 Southampton Road, Lymington, Hants., SO4 9GG.
- 1927 \*Trevaskis, P., S., F.A.I.P.A., Macclesfield Road, Avonsleigh, VIC 3159, Australia.
- 1972 Trevan, D. J., Flat 2, Daisybank Farm, Holmes Chapel Road, Lower Withington, Nr. Macclesfield, Cheshire.
- 1964 Trewinnard, R., 45 Laburnum Road, Cumbernauld, Glasgow.
- 1946 -Trower, Miss S., Little Crown, Ewhurst, Surrey.
- 1936 \*Truman Fossum, M., 1145-19th St., N.W., Suite 415, Washington, D.C., 20036, U.S.A.
- 1970 -Tuck, J., 155 Muirside Avenue, Kirkintilloch, Dunbartonshire.
- 1969 Tuck, Mrs. J., ditto.
- 1912 \*Tuck, W. H., N.D.H., Sancroft Manor, Laxfield, Woodbridge, Suffolk.
- 1946 Tucker, Mrs. R. C. (Miss J. Sampson), 21 York Street, Sandy Bay, Hobart, Tasmania, 7005, Australia.
- Tumsey, R. H., Old Northern Road, P.O. Box 1, Dural, N.S.W. 2158, Australia.
- 1949 -Turley, A. G., 23 St. Paul's Close, Hounslow West, Middlesex, TW3 3DE.
- 1949 -Turley, P. G., ditto.
- 1910 Turner, A., 8 Bridgwater Road, North Petherton, Bridgwater, Somerset.
- 1965 Turner, A. P., c/o Johannesburg Parks Dept., Johannesburg, South Africa.
- 1936 \*Turner, J. H., F.L.S., "Cradock," 70 Fairfield Rd., Winchester, Hants. SO22 6SG.
- 1960 Turton, K. J., 190 Woulton Road, Liverpool 19.
- 1948 Tweedale, F., Dep. Dir., Parks Dept., Newcastle-upon-Tyne.
- 1956 -Tyte, J. S., 22 Woodhall Close, Downend, Bristol, BS16 6AJ.
- 1926 Vallance, J. C. S., 12411 Feldon Street, Silver Spring, Maryland, U.S.A.
- 1938 Van Rynveld, C. C., 808 Old Main Road, Cowies Hill, Pinetown, Natal.
- 1961 -Van der Breggan, J. G., Burgess Park, 290 Jacob Mare Street, Pretoria, S.A.

- 1934 \*Vanson, G. H. C., The Lodge, Bradley Woods, Grimsby, Lincs.  
 1920 \*Vardy, M., "Sandhill," Middleton Lane, Middleton St. George, Darlington, Co. Durham.
- 1927 Verdoorn, Miss Inez, Division of Botany, Pretoria, Transvaal, South Africa.  
 1929 Viale, Secundo, c/o La Mortola, Ventimiglia, Italy.  
 1935 Viale, Terzo, c/o La Mortola, Ventimiglia, Italy.  
 1956 Vickers, F., East Park Lodge, Corporation Park, East Park Road, Blackburn.  
 1946 \*Vile, K. M., 37 Station Road, Great Bowden, Market Harborough, Leics.  
 1958 Vogt, A., Gartenbau, Zollerstrasse, Erlenbach-Zurich, Switzerland.
- 1966 -Waddell, D., The Bungalow, Elmwood College, Cupar, Fife, KY15 4HY.  
 1946 -Wakefield, Mrs. E. M. (Miss Moss-Holland), 13/2 Wester Drylaw Row, Edinburgh EH4 2SF.
- 1934 -Walby, A. P. S., Cutteslowe Park, Summertown, Oxford.  
 1902 Waldenburg, N., Alnarps, Tradgardsskola, Nr. Akarp, Sweden.  
 1937 -Walker, W. F., N.D.H., F.L.S., Chief Hort., Dept. of Agric., G.P.O. Box 192B, Hobart, Tasmania.
- 1947 Wall, R. G., M.B.E., N.D.H., Dep. Reg. Dir., Commonwealth Graves Commission, Northern Region, Place Marechal du Foch, 62-Arras, France.  
 1928 \*Wallace, Mrs. G. B. (Duke), M.Sc., 31 Dukehaugh, Peebles, Peeblesshire.  
 1944 -Waller, Mrs. H. (Shallcross), Burnt House Farm, Chartham, Nr. Canterbury, Kent.
- 1968 -Walshaw, D., 1b Priory Road, Kew, Richmond, Surrey.  
 1921 \*Walters, E. A., Northwood Presteigne, Radnorshire, North Wales.  
 1964 Walters, Miss S. K. (See Mrs. Low).  
 1947 -Ward, J., S., 20 Garden Lane, New Orleans, Louisiana, U.S.A.  
 1963 -Ward, R. C., 254A Kew Road, Kew, Richmond, Surrey.  
 1952 Ward, W. B., Chief Hort., Hodges Gardens, Highway 171, Many, Louisiana, Canada.
- 1920 Wareham, Miss E. (See Mrs. Finch).  
 1922 \*Warner, Miss Audrey (See Mrs. Joy).  
 1970 -Warris, Mrs. P., Maplewood, Heatherlands Road, Chilworth, Southampton, SO1 7JR.
- 1937 -Wass, B. B., 87 Berkeley Avenue, Reading, Berkshire, RHL 6HS.  
 1937 \*Watson, D. P., B.S.A., M.Sc.(Lond.), Ph.D., Univ. of Hawaii, Dept. of Hort., 3190 Maile Way, Room 102, Honolulu, Hawaii 96822.  
 1954 -Watson, G., c/o Col. and Asian Affairs, 61 Sower Street, City Centre, Johannesburg, South Africa. Home address: c/o Mrs. E. O. Watson, 223, Cinderhill Road, Cinderhill, Nottingham, NG6 8SE.
- 1949 Watson, J., City of York Parks Dept., Yorkshire.  
 1923 \*Watson, J. W., A.H.R.H.S., 14 Hollywell Road, Aylestone, Leicester.  
 1922 Watson, Miss K. (See Mrs. Chambers).  
 1971 -Watts, G. R., 124 Ingrave Road, Brentwood, Essex.  
 1948 -Waumsley, N., 25 Manor Gardens, Shephed, Loughborough, Leics.  
 1908 \*Weber, A., Niedershausen, Oberlahnkries, Germany.  
 1968 -Webster, A., 2 Halstead Walk, Allington Farm Estate, Maidstone, Kent.  
 1953 Weighill, G. C., Parks and Cemeteries Dept., Exeter, Devon.  
 1968 Weir, A. M., 34 Edmonton Avenue, Howden South, Livingston, West Lothian, Scotland.
- 1946 \*Wells, Miss L. M., N.D.H. (See Mrs. Wren).  
 1936 -Wells, D. V., A.H.R.H.S., 23 Meadow Close, Ruislip, Middlesex.  
 1938 Werder, H. A., 31 Rue Racine, Montrouge (Seine), France.  
 1943 \*Werner, H. F., Myrtenhof Farm, P.O. Berlin, 5660 South Africa. Curator, Nat. Botanic Gardens., Kirtenbosch, South Africa.
- 1944 Werner, Mrs. M. (Miss M. Speake), ditto.  
 1948 \*Western, Miss P. (See Mrs. Himson).  
 1949 -Wharton, K., 13 Manor Road, Off Dewsbury Road, Wakefield, Yorkshire.  
 1935 -Wheeler, G. F., N.D.H., West Lodge, Nunwell Park, Brading, I.O.W.  
 1929 Whibley, Mrs. (Miss C. Hillier), Aboyne, Southampton Road, Compton, Nr. Winchester, Hants.
- 1911 \*White, A. H. J., Elloughton Road, Brough, East Yorkshire.  
 1946 White, Miss J. M., Greenwood House, Churston Ferres, South Devon.  
 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., Roxburgh House, Cranbrook, Kent.  
 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 Willett, 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, Cyncecoed, 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.  
 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., Honister Place, Newton Aycliffe, Nr. Darlington, Co. 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, Southern Rhodesia.  
 1947 -Woodward, A., N.D.H., F.Inst.P.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.

## KEW GUILD AWARD SCHEME

The idea of a scheme to encourage the enterprise of Kewites and to widen the activities of the Guild was first discussed by committee members some 18 months ago. Since then the original idea has been developed and undergone a process of refinement both by the Guild Committee and by the 1974 A.G.M. Members of the Guild will now be well acquainted with the spirit and the aims which engendered the initial proposition and from which the Award Scheme evolved.

A sub-committee was appointed at the October 1974 meeting of the Guild Committee specifically to operate the Scheme under its direction. The guide lines for running the Scheme which were discussed at the 1974 A.G.M. have been adopted and put to use.

I can report that the Award Scheme is well into the first stage of fund raising. The target for the Award Scheme's capital fund is set at £5000; an optimistic aim some may feel, but the enthusiasm shown by the members so far has given the Committee the confident opinion that this will be matched in financial support.

The funds to be used for making awards will be derived from the investment income on the Schemes own capital and also from working funds provided from time to time by the Guild itself. It was therefore clearly desirable for the sub-committee to concentrate firstly on fund raising and this it has done.

An appeal to individual members in the U.K. for financial support will be issued with the Annual Dinner notices and soon after this a similar appeal will be made to overseas members, through member agents located in each region. Several proposed fund raising events to take place during 1975 and also approaches to selected Industrial concerns are further steps now under consideration. Announcements about these will be made at the Annual Dinner.

The Students have kindly offered the proceeds of the raffle to be held at their Fete, a gesture warmly appreciated and readily accepted by the Guild.

Money is necessary to launch this Scheme so funds or ideas from members will be welcomed. For instance, as the funds will always benefit from topping up it is hoped that members might consider the Award Scheme as a worthy beneficiary for legacies or even for gifts as a memorial to a friend or relative.

It is anticipated that when the Award Scheme is fully operational applications for awards will be considered twice yearly, in June and December. The indications are that the first Awards can be made to applicants from December this year—a prospect highly regarded by the Guild Committee.

B. Lowe.

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