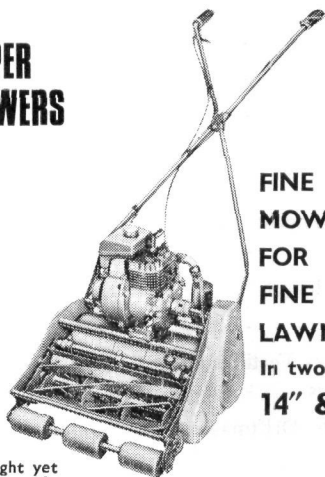


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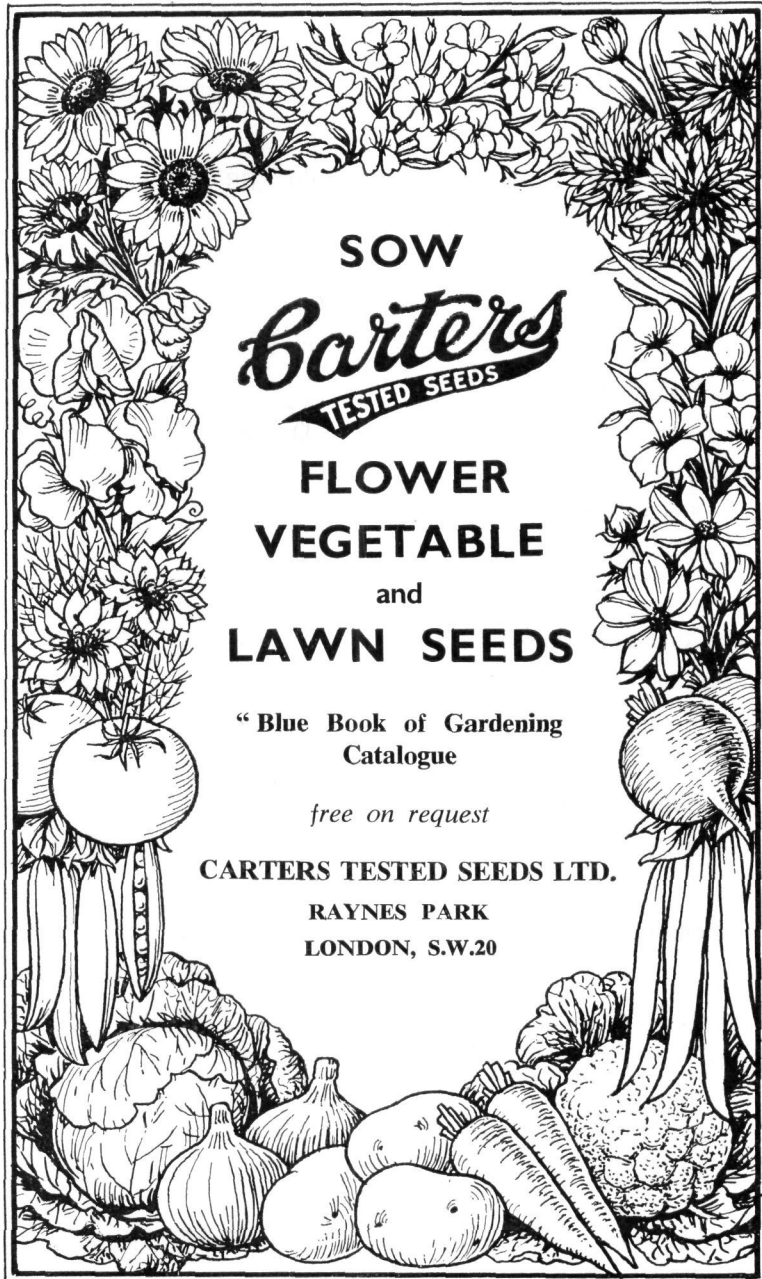
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INDEX TO ADVERTISERS.

	<i>Page</i>
Bedfordshire Silver Sands - - - -	J. Arnold & Sons, Ltd. - - - - 492
Bulbs and Seeds - - - -	Walter Blom & Sons, Ltd. - - - - 502
Camellias - - - -	L. R. Russell, Ltd. - - - - 496
Fertilisers - - - -	J. Bentley, Ltd. - - - - 480
Garden Tools - - - -	Wilkinson Sword - - - - 478
Glasshouses - - - -	V. & N. Hartley, Ltd. - - - - 473
Glasshouses - - - -	Crittall Manufacturing Co., Ltd. Inside front cover
Horticultural Specialist and Sundriesmen - - - -	Maskells Fertilisers - - - - 498
Insecticides—"Clensel" - - - -	J. Paterson & Co., Ltd. - - - - Inside back cover
Insecticides - - - -	Strawson Chemical Co., Ltd. - - - - 504
Lawn Conditioners, Fertilisers and Insecticides - - - -	International Toxin Products, Ltd. Outside back cover
Lawn Equipment—Driftmaster	Richmond Gibson, Ltd. - - - - 488
Lawn Equipment—Sisis - - - -	W. Hargreaves & Co., Ltd. - - - - 476
Liquid Seaweed Manure - - - -	Maxicrop, Ltd. - - - - 492
Mowers - - - -	J. P. Engineering Co., Ltd. - - - - 381
Pots - - - -	C. H. Brannam, Ltd. - - - - 476
Printers - - - -	H. J. Rowling & Sons, Ltd. - - - - 524
Pruning Compound— "Arbrex" - - - -	Pan Britannica Ind., Ltd. - - - - 500
Publications - - - -	Parks & Sports Grounds - - - - 472
Roses - - - -	E. B. Le Grice - - - - 494
Sandstone - - - -	Jenner & Grynyer, Ltd. - - - - 502
Scientific Meteorological and Thermometrical Instruments	Heath, Hicks & Perken, Ltd. - - - - 486
Secateurs - - - -	Rolcut, Ltd. - - - - 504
Seedsman - - - -	Carters Tested Seeds - - - - 384
Soil Steriliser - - - -	Terra Force (Great Britain), Ltd. - - - - 490
Spraying Equipment - - - -	Solo Sprayers, Ltd. - - - - 474
Trees and Shrubs - - - -	Hillier & Sons - - - - 494
Trees and Shrubs - - - -	Treseders' Nurseries (Truro), Ltd. - - - - 461
Tree Ties - - - -	Rainbow Tree Ties - - - - 496
Water Plants - - - -	Perry's Hardy Plant Farm - - - - 474

INDEX TO ARTICLES

	<i>Page</i>
Index to Advertisers - - - - -	382
List of Officers - - - - -	385
President - - - - -	386-387
Vice-President - - - - -	388-389
Annual General Meeting and Annual Dinner - -	390-398
American Branch of Guild - - - - -	399
New Zealand Branch of Guild - - - - -	400
Societies and Associations - - - - -	402-410
Editorial - - - - -	411
Notes and Gleanings - - - - -	412-425
Educational Section - - - - -	426-436
Kew Botany Club - - - - -	436
Mutual Improvement Society - - - - -	437-438
Kew, Weather and Plants - - - - -	442-446
In Memoriam - - - - -	456-472
Kew Staff List - - - - -	475-481
Positions taken by Students - - - - -	482
Kew Guild General Accounts - - - - -	483-485
Address List - - - - -	487-519
Rules - - - - -	520-523



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THE
JOURNAL
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KEW GUILD

FOUNDED—1892

AN ASSOCIATION OF
MEMBERS OF THE KEW STAFF
PAST AND PRESENT

1964

LIST OF OFFICERS

President: S. A. PEARCE, M.B.E., A.H.R.H.S.

President-Elect: P. W. H. CONN, A.H.R.H.S., F.I.P.A.

Vice-Presidents: E. BROWN and C. JONES.

Trustees: Sir GEORGE TAYLOR, D.Sc., F.R.S.E., F.L.S., V.M.H., and
L. STENNING, M.B.E., V.M.H., A.H.R.H.S. (*See below*).

Hon. Treasurer: A. D. SCHILLING, D.A.

Assistant Hon. Treasurer: J. B. SIMMONS, N.D.H.,
Royal Botanic Gardens, Kew, Richmond, Surrey.
(Please address all remittances to Mr. J. B. Simmons.)

Hon. Secretary: J. R. SEALY, B.Sc., F.L.S.

Hon. Editor: G. E. BROWN, N.D.H.

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Dr. KEITH JONES, *Kew*.
R. C. McMILLAN, *Manchester*
M. FREE, *U.S.A.*

Retire 1966

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Retire 1967

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Retire 1968

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L. PEMBERTON, *Kew*.
W. T. PRESTON, *Ealing*.
M. THERON, *South Africa*.

Student Gardeners' Representatives:

P. HITCHIN and J. GOODALL.

Hon. Auditors: J. SOUSTER and H. G. LANGHAM.

(L. Stenning died on 4th March, 1965.)

SYDNEY ALBERT PEARCE.

President, 1964/65.

It can be said that our President, Sydney A. Pearce, has spent the whole of his life in horticulture. He was born on 16th June, 1906, at Awbridge Danes, near Romsey, Hampshire, where his father was head gardener. His education was at the local schools at Alton and Long Sutton, and on leaving school at the age of 14½ years, he started his career at Lord Wandsworth College, near Basingstoke, where his father was in charge of the horticultural department. His father was a great grower and exhibitor of chrysanthemums, a flower which our President has also taken a keen interest in.

After several years in private gardens he worked in the trial grounds of Messrs. Sutton & Sons at Reading, Berkshire, where he gained a wide knowledge of indoor and outdoor plants grown from seed. He was fortunate enough to work under one of the finest showmen, the late E. R. Janes and during his time at Suttons he visited and exhibited at the leading shows in the country such as Chelsea, Southport, Shrewsbury and many of the county shows. He also took advantage of the opportunity to attend evening classes at Reading University, studying such subjects as botany, chemistry, English and book-keeping. It was at the Reading and District Gardeners' Society that he gave his first lecture (probably to a most critical audience of "ponicas") and it is pleasant to record that this gained him a prize. One could say that his qualities were recognised early!

Having spent three years at Reading he entered the Royal Botanic Gardens, Kew, as a student gardener on 16th July, 1928. In his first ten weeks in the Tropical Pits as "odd man", he specialised in "bugging", using a brush and pot of Volck. With such experience he was, much to his surprise, put in charge of the seed pit and Banana House. The bananas at the time were being grown under the care of the Empire Marketing Board; for this charge he received an extra 7s. 6d. a week. Having spent eighteen months in the Tropical Pits he became student foreman remaining in charge of the department until he left.

During his student days at Kew, Sydney Pearce took an active part in sport which included cricket, football and running. He was Secretary of the Cricket Club from August, 1929, to April, 1931; and in the 1929-30 football season was the highest scorer—with six goals. He did well in lectures and had honourable mention in the *Kew Guild Journal* in the following subjects: Geology and Soils, General Botany and Advanced Systematic Botany and Economic Botany. In his first year at Kew, he gave a lecture on chrysanthemums, to the Mutual Improvement Society.

In October, 1931, he left Kew to take up an appointment in the Parks Department at Swansea, South Wales, under that much-respected Old Kewite, the late Daniel Bliss. Here he gained a vast knowledge in a wide range of plants. In 1934 he was appointed Assistant Superintendent of Richmond Parks Department. Then, in January, 1937, he returned to Kew and was appointed Assistant Curator of the Decorative Department, under the late John (Jock) Coutts, who was Curator at that time. With the outbreak of war, he took over the supervision and running of the food plots and allotments, including the first fruit demonstration plot in the London area.

Then in 1945, he succeeded the late Arthur Osborn as Assistant Curator of the Arboretum, holding the appointment until 1956 when the department was divided into two sections. This change entailed spending half of his time as an assistant to the Curator, the late W. M. Campbell. Although this change meant that our President missed the tree and shrub collections, his new work became more varied, for he then dealt with correspondence, the telephone and visitors who were immediately put at ease by his friendly manner. He has always taken a keen interest in the Mutual Improvement Society and was chairman of the Society for seven years and Vice-Chairman for several years.

Our President has given, and continues to give, good service to the Kew Guild. He was Joint Secretary with the late W. M. Campbell from 1944 to 1952, and for the same period Editor of the *Journal*.

In his spare time he gardens, motors and photographs, broadcasts, lectures, writes and judges. Apart from his contributions to the horticultural press he has two books to his credit: *Climbing and Trailing Plants*, published in 1957, and *Ornamental Trees— for garden and roadside planting*, in 1961. He has judged at the leading horticultural shows of this country — including those at Southport, Shrewsbury, Birmingham, Leicester and Leamington Spa and the shows of the Royal Horticultural Society.

His advice on arboriculture is frequently sought, enquiries coming from all over the country. He is an authority on roses and was for several years on the Council of the National Rose Society. He is also keenly interested in the recently founded Arboricultural Association, and is Chairman of the Association's Education Committee. The Royal Horticultural Society recognised his services to horticulture by awarding him the Associate of Honour in 1958 and recently he has been elected a member of the Society's Floral "B" Committee. In 1963 he was made a Member of the British Empire.

It is with much pleasure that I write these notes in honour of our President, Sydney Pearce, whose friendship I have been privileged to enjoy for over 25 years.

NOËL J. PROCKTER (1937).

CYRIL JONES

Vice-President, 1964/65.

It is with considerable pleasure that I undertake the duty of writing a few words on the career and accomplishments of our Vice-President, Cyril Jones.

Known to all his Kewite friends as "Joney" our Vice-President is a real plantsman, and has been for all the 42 years I have known him. How could he be otherwise when he was born in the gardens of Beckett Park, Shrivenham, Berkshire, where his father was head gardener.

His career started at the age of 15 in Pusey House Gardens, Berkshire, and in 1912 he moved to Belvoir Castle Gardens, Grantham, under that grand old gardener, the late W. H. Divers, V.M.H. I well remember the old gentleman, attired in brown Norfolk jacket and knee breeches, calling at Kew on many occasions to see his protégés, Jones and Birkinshaw. In 1914 he moved to Alnwick Castle Gardens, Northumberland, under the late Mr. J. Thompson, an Old Kewite from whom he received the inspiration to enter Kew. Joining the Lincolnshire regiment in 1917 he served in Flanders until 1919. On demobilisation he returned to Alnwick and for a short period was foreman at Henlow Grange Gardens, before entering Kew in January, 1921. We served in the Palm House together, and then in the Tropical Pits. One of my most pleasurable memories of those days were the arguments on the relative merits of Thomas Hardy and Rudyard Kipling, between Cyril Jones and the late Ernest Nelmes.

He passed out well in all the lectures and tests, and was keenly interested in the social side of Kew, especially in cricket in which we had a mutual interest.

Leaving Kew in August, 1923, Mr. Jones went to Avon Tyrrill Gardens, Hampshire, where he was in charge of the repairs of war-neglected gardens. This work entailed replanting and laying out woodland gardens and existing shrub borders and herbaceous borders. Our Vice-President is fond of saying he worked harder during his period at these gardens than he has at any time in his life.

In 1924 he was appointed head gardener at Broadlands Gardens, Romsey, Hampshire. In 1926 he moved as head gardener to the Earl of Normanton, Somerley, Ringwood, Hampshire, and here he carried out extensive replanting of the gardens especially rhododendrons, azaleas, etc. 1930 saw him as Representative and Horticultural Adviser to the Northern Home Counties with Messrs. Carters Tested Seeds, Raynes Park. During this period he served on the Guild Committee for several years. With the co-operation of Mr. J. Coutts and Mr. L. Stenning he was able to revive the Annual Cricket Match with Kewites on Kew Green, and until 1948 he acted as Hon. Secretary to the "Old Boys". Prior to the last war these games were attended by many Kewites and their families and almost rivalled the Guild Annual Dinner in popularity.

In 1943 he came to Leicester as Nursery Manager at our Rotherley Nurseries. The extensive ranges of glass were, owing to the war, given over to food production and $1\frac{1}{4}$ tons of tomatoes were often picked and graded in a day. Joney often declared in his usual forthright manner, "I never want to see another B. tomato again".

In 1947 he moved to Glasgow Parks Department as Curator of Castlemilk Estate and Nursery, and will always be remembered in the "No Mean City" for the brilliant floral displays in George Square situated in the centre of the City.

Retiring in 1962 he could not keep away from gardening and joined Robert Wilson & Sons, Ltd., as Garden Superintendent and is still actively engaged in laying out and replanting the firm's gardens at Skelmorlie Castle and Eglinton Castle, Ayrshire.

In 1923 he married Miss M. Geggie of Friars Well, Alnwick, Northumberland, and I have happy memories of meeting them on Newcastle Station at that time. Cyril has a daughter, Doris, who has been a great comfort to him since he lost his dear wife on 20th November, 1963.

He has always kept in close touch with Kew and supported the Guild in every possible way. It is his proud boast that he has missed only one Guild Dinner since 1929.

At the Annual General Meeting the President, J. S. L. Gilmour, referred to him as one of the keenest and most loyal supporters of Kew and the Guild. We have had a long and close friendship for over forty years, and many old and present Kewites regard him as a close and charming friend.

I am sure his last word would be to echo those of our old friend the late Mr. G. Harris, who lived near me at Newcastle-on-Tyne.

"I reverence Kew."

J. W. WATSON (1923).

KEW GARDENS CHRISTIAN FELLOWSHIP.

The Fellowship, now two years old, has grown from strength to strength. In addition to mid-week meetings, which are held in the Choir vestry of St. Anne's Church, main meetings have been well supported in the lecture room. "Fact and Faith" films proved to be very popular and occasionally a guest speaker was invited. A Christmas meeting entitled "Carol Supper" has taken the place of the usual carol singing.

We extend a warm welcome to those who feel that they would like to join us for a "quiet time" every Wednesday from 12 noon to 1 p.m. in St. Anne's Church on Kew Green. Moves have been made to join the Fellowship with the Sports and Social Club and we hope this will be a possibility.

B. F. HOWARD, *Hon. Secretary.*

THE ANNUAL GENERAL MEETING, 1964.

The A.G.M. was held in the Students' Lecture Room (the old Museum II) at Kew on Saturday, 29th August. The President, Mr. J. S. L. Gilmour, presided, and was supported by the honorary officers, with forty-five other members present. Promptly at 2.45 p.m. the President opened the meeting by welcoming those present, and said how much he enjoyed being back in familiar surroundings and seeing again so many old friends. He then asked the Secretary to read the apologies for absence, and next asked the meeting to stand while the Editor read the list of members who had died since the last A.G.M. The meeting then dealt with the items on the Agenda, as follows.

(1) *Minutes of the last A.G.M.* held on 31st August, 1963, had been circulated by printing in the *Journal* Vol. VIII, No. LXVIII, pp. 268-274 (1964), and the meeting agreed unanimously that they be signed as a true record.

2. *Report of the Committee.* This was presented by the President and officers under the following headings :—

- (i) *Financial Report.* The accounts for the year ended 31st December, 1963, are printed in the *Journal*, Vol. VIII, No. LXVIII, pp. 291-293. A special expenditure was £79 for the blocks and printing of the coloured illustrations of the Arms and Badge, but this is partly met by the decision to transfer to the General Account the balance of £45 1s. 3d. in the Grant of Arms Fund. As no further expenses in connection with the Arms and Badge can be foreseen, the Committee thinks the balance in the Fund can be most appropriately used to help to pay for the illustrations. The Guild retains the colour blocks and they can be used for printing the Arms and/or Badge in colour whenever needed. The loss of £15 18s. 3d. on the dinner was due to an over-generous reduction on the tickets for students, which caused a net loss of 3/6d. a ticket. A more realistic concession this year has resulted in a satisfactory balance sheet. Christmas Cards realised a profit of £7 7s. 2d., half of which goes to the Student Gardeners' Association as usual.

A motion that the accounts be approved was proposed by Mr. L. Pemberton, seconded by Mr. S. A. Pearce, and carried unanimously.

The accounts for the half-yearly period January 1st to June 30th, 1964, are as follows :—

Receipts £800 5s 9d. (main items : subscriptions and donations £189 14s. 11d., balance from 1963 A/C. £479 12s. 2d., Ties £107 5s. 0d., sale of *Journals* £3 1s. 5d.).

Expenditure £533 12s. 8d. (main items : *Journal* £343 15s. 0d., 176 Ties £126 14s. 6d., envelopes and postage of *Journals*, circulars and postage, etc., £38).

Balance in hand £266 13s. 8d. (Barclays Bank £241 11s. 3d., P.O. Savings Bank £14 19s. 5d., cash in hand £10 3s. 0d.).

Nearly £109 is still to come from advertisements in the *Journal*, and a considerable number of members have still to pay their annual subscription.

The amounts in the various Funds are as follows :—
 Watson Education—£166 10s. 3d., War Memorial—£20 11s. 6d., Matilda Smith—£32 17s. 4d. (includes £10 transferred from the General Account), Proudlock—£20 9s. 1d., of which £20 was transferred from the General Account, Dümmer—£52 16s. 1d., Benevolent—£81 2s. 11d., Jubilee—£1,091 6s. 5d. (includes further donations of £1 7s. 0d.).

- (ii) *Membership*. Life members 314 ; Subscription members : Old Kewites 300, Present Staff 67, Student Gardeners 40. The annual income from subscriptions is £280. No fewer than 80 members now pay by Bankers Order, a most gratifying response to the request made by the Hon. Treasurer last year.
- (iii) *Badges, Ties, etc.* These are provided at cost price plus a small sum for postage. 45 badges and 174 ties have been sold so far, and a further supply of ties has been ordered. Car Badges are available at 35s. each in two types of fitting, and gold plated cuff-links can be supplied at 52s. 6d. a pair. Enquiries are being made about the provision of brooches and lapel-badges : it would seem that an initial outlay of £10 10s. 0d. would be incurred for the die, and the cost of the badges would depend to some extent on the number ordered.
 A short discussion took place on whether or not such brooches and badges should be provided, and it was finally proposed by Mr. Pearce, seconded by Mr. C. Jones and agreed that a minimum number be ordered.
- (iv) *Christmas Cards*. 250 of last year's cards are available at 3d. each. A new card will be produced, in two forms as usual, and will cost 5d. It will be a reproduction of an old print showing the Palm House and its surroundings about a hundred years ago. A photograph of the print was passed round for members to see.
- (v) *The Journal*. This was published in May, a little later than anticipated owing to circumstances outside the Editor's control. It contains the same number of pages

as last year, and one more advertisement, making 26 in all. These bring in a total of nearly £109 which reduces the total cost of £343 to £234. As will be seen part of the *Journal* has been put under the heading Educational, in anticipation of a possible requirement if the Guild becomes a Charity. An innovation is the list of members and wives present at the Annual Dinner. Another innovation proposed for future issues is the provision of a photograph of members who attend the Annual General Meeting.

A complete set of the *Journal* has been presented to the Gardens for the Museums Library. This brings the number of sets at Kew to five, the others being one each in the Gardens Library, The Curator's Office, The Director's Office and the Herbarium Library. In addition the Guild itself holds three complete sets: two are in the care of the Hon. Editor, while the third has been placed on loan in the Herbarium for use in the Keeper's Room.

The President said that he thought everyone would agree that the *Journal* was excellent and he felt sure that the meeting would like to congratulate Mr. Brown and thank him for all the work he had done—which the meeting did with acclamation.

- (vi) *Back numbers of the Journal.* The Committee decided that the stock should be reduced to a maximum of 12 copies of each number. Copies in excess of 12 have been passed to the Hon. Editor who will, when time permits, extract from them any articles that are historically interesting and make them up in the form of a small booklet which can be offered for sale. During the year 118 back numbers have been sold, while another 14 were used to make up the sets mentioned above. There are copies of all numbers except No. I, but there is only one copy of No. X, two copies each of Nos. VII, VIII, XI and XXXI, three copies each of Nos. VI and XV, four copies each of Nos. XLV and LVIII, and five copies of No. XLII at 30th June, 1964. We have again to thank Mr. Rawlings for looking after the stock and despatching copies as required. He has prepared a complete inventory which he keeps up-to-date, so that the position is always known. We are most grateful for all he has done.
- (vii) *Collection of Photographs.* 20 Prints were added during the year bringing the total to 370. Mr. Rawlings has kindly continued to look after the collection.

The President said that he felt sure that members would wish to say "thank you" to Mr. Rawlings on behalf of the Guild for his work in connection with the *Journal* and the Photographs, and this was warmly applauded.

- (viii) *Annual Dinner.* (See separate account). The President said that he thought the evening had been a great success and he would like to propose a vote of thanks to Mr. Preston and the other members of the Committee who had made the arrangements—this was carried with acclamation. A brief report on the Dinner was presented to the meeting and attention was drawn to the fact the prices, 27s. for ordinary members, 24s. for students, just covered the expenses, but only 14 students attended against 34 last year, when a much larger reduction was made and a heavy loss incurred. Had two more students attended this year a loss would have resulted. It is very difficult to keep prices low and not risk a loss.

Commenting on this, Mr. McMillan said he thought a rebate for the students was quite unnecessary, and after some discussion he formally moved, "That the price of the tickets for the Annual Dinner be the same for all members of the Guild" and this was seconded by Mr. Prockter. An amendment that the matter be left to the Committee was moved by Mr. Stock and seconded by Mr. C. Jones. After a short discussion the Secretary pointed out that the Committee always found the question of a rebate very troublesome and wanted guidance from the A.G.M. On being put to the vote the amendment was lost, eight voting for it and almost everyone else against. Discussion was then resumed on the original motion, and this when eventually put to the vote, was carried by 25 to 14.

- (ix) *Prizes.* The Committee decided that no alterations should be made this year, but hopes that when the funds of the Guild are eventually brought under the protection of the Charity laws, more prizes can be provided by the Guild, and the value of existing prizes increased. In particular it is hoped to bring the value of the prize for the student obtaining the highest marks over the lecture courses to the level of the prize for the best practical student. The Guild is greatly indebted to the Directors of *The Grower* Publication for the latter prize.
- (x) *Proudlock Cups.* These are intended for competition by Old Kewites and their wives and daughters, as well as by members of the Guild still at Kew, but it is several years since an Old Kewite entered the competitions. Although there is a notice in the *Journal*, there has been no response this year.

Commenting on this Mr. Preston said that one difficulty was to arrange times for Old Kewites to play, and it was also noticeable that the Tennis Club was not very well supported at the moment. Mr. Stock said that it seemed that tennis was generally not so popular now-a-

days, and he wondered if it would be possible to arrange a "Tennis Day" for the Guild.

- (xi) *The Guild as a Charity.* Towards the end of October, 1963, the Charity Commissioners decided that as the charitable objects of the Guild were mainly educational, the questions of granting Charity status should be passed to the Minister of Education. In a letter dated 5th November, 1963, the Minister rejected our application. Our solicitor replied that the decision could not be accepted, and shortly afterwards asked the hon. secretary to attend a meeting with the counsel who had drafted our Rules. Counsel was absolutely sure that the Minister's decision was wrong and would be reversed if challenged in the High Court. The cost of this would have been too great for the Guild funds, and it was therefore agreed that counsel should prepare an "opinion" refuting the Minister's decision, and that the hon. secretary should prepare an *aide-mémoire* about the Gardens and the Guild, and that the two documents should be sent to the Ministry of Education. This was done, and on the 19th June a reply was received from the Department of Education and Science (which the Ministry had become in the intervening period) reversing the earlier decision and stating that the Guild could be registered as a Charity provided an amendment was made to Rule (2) (f). It is expected that once the necessary formalities are completed, there will be a period of 4-5 months before registration is effected.
- (xii) *Correspondents of the Guild.* The Committee has been considering ways of keeping members of the Guild in touch with one another and, as will be seen from the *Journal*, has appealed for members to act as Correspondents for such areas of the country—district, county, etc.—as they can conveniently cover. It is envisaged that a Correspondent would keep in touch with Kewites in his area, and pass on news, comments, suggestions, etc., to the Guild Committee via the Hon. Editor. The Committee would also like to have a Correspondent in every country overseas where there are Kewites. As can be seen from the Address List, Kewites are to be found in no fewer than 44 countries, excluding the British Isles. Four places on the Committee are reserved for overseas members, but they cannot cover all the members who are overseas and additional Correspondents would be welcome.
- (xiii) *Memorial to John and Alexander Smith.* The headstone of the grave in Kew Churchyard of John Smith, Curator of the Gardens 1841-1864, and his son Alexander Smith, first Curator of the Museums and afterwards Curator of

the Herbarium, has flaked badly. The Committee recommends that the Guild should provide a memorial tablet to be set up inside St. Anne's Church, and the Vicar has taken the matter to his Council. John Smith was the first Curator of that name. He worked in the Gardens for 44 years, was foreman under W. T. Aiton from 1823 to 1841, and was appointed Curator by Sir William Hooker when he became Director in 1841. It was John Smith who drew the attention of influential people to the proposal to disperse the Kew collections, as a result of which the Gardens were taken over by the Government. Enquiries show that the cost of a memorial plaque in marble would be about £20, and much the same for a tablet of wood. Mr. Prockter has been in touch with a firm about the latter and they had supplied a rough drawing showing the sort of thing proposed. The drawing was shown to the meeting. Mr. Prockter said that the firm were well-known for this sort of work and could be relied on. The Secretary said that the Committee would like the A.G.M. to express an opinion on the proposal for a memorial, and after several members had spoken in favour of it, Mr. Pemberton proposed that a memorial tablet be erected as suggested, this was seconded by Mr. Hepper and carried unanimously. It was also agreed that if there should be a ceremony, an invitation should be sent to Old Kewites, and that the A.G.M. would be a very convenient time.

- (xiv) *Alterations to Rules.* In addition to the amendment to be made to Rule (2) (f), mentioned above, the Committee's attention has been drawn to the necessity for rewording the first sentence of Rule (10) (b). Proposals for both were on the Agenda for the meeting.
- (xv) *Committee and Auditor.* The following leave the Committee having completed their terms of office : Mr. F. G. Harcourt (Past President), Dr. E. K. Thomas (Vice-President), Mr. G. S. Joy, Mr. T. A. Russell, Mr. C. R. Stock and Mr. J. S. Taylor, while Mr. A. S. Woodward is the retiring Auditor. To all these gentlemen the Guild is greatly indebted for their services, and on behalf of the Guild the President expressed thanks to them all.

This concluded the Report of the Committee and the meeting continued with the other items on the Agenda as follows.

3. *Alterations to the Rules.* The following, of which notice was given to all members, by printing them in the Agenda, were considered by the meeting.

- (i) Rule (2) (f) : delete the words " to co-operate with other bodies having similar or sympathetic aims and ". This is the alteration required for registration as a Charity.

It was formally moved by Mr. Campbell, seconded by Mr. Pemberton, and agreed unanimously.

- (ii) Rule (10) (b) : delete the first sentence and replace it by the following : "Four ordinary Committee members (three of whom shall be Old Kewites) shall be elected each year and shall hold office for four years. They shall not be eligible for re-election for at least twelve months after the end of their term of office." The Secretary said that the Rule as it stood did not provide for the election of Committee members, only for their retirement ; hence the alteration. The change was formally moved by Mr. Stock, seconded by Mr. Ballard, and agreed unanimously.

4. *Election of Officers, Members of the Committee, and Auditor.* The following, whose names were printed on the Agenda as being nominated by the Committee, were put to the meeting by the President and were elected unanimously with acclamation : —

President	Mr. S. A. Pearce
President-Elect	Mr. P. W. H. Conn
Vice-President	Mr. C. Jones
Hon. Editor	Mr. G. E. Brown
Hon. Treasurer	Mr. A. D. Schilling
Hon. Secretary	Mr. J. R. Sealy
Members of the Committee	Mr. C. E. Cherry
	Mr. L. Pemberton
	Mr. W. T. Preston
	Mr. M. Theron
Hon. Auditor	Mr. H. G. Langham.

5. *Any Other Business.* Major Flippance asked if the Temple of Arethusa, which housed the War Memorial, was going to be cleaned up as it was looking rather the worse for wear. Mr. Preston replied that the work was actually in hand and the whole structure was being redecorated.

Finally, Mr. Stock proposed a vote of thanks to the President, not only for the admirable way in which he had presided over the meeting, but for all he had done during his year of office, and this was carried with great acclamation. In reply the President said it had been a very great pleasure to occupy the Presidential Chair and he warmly thanked the Officers and Committee for the support they had given during his year of office. The President then declared the meeting closed, and members proceeded to the Orangery for tea.

COLOURED ILLUSTRATIONS OF ARMS AND BADGE

A limited number of the coloured illustrations of the ARMS and BADGE as appeared in the 1962 "Journal" (Vol. VIII, No. LXVII) are available from the Hon. Editor, priced three shillings and sixpence

Please make cheques, P.O.'s, etc., payable to THE KEW GUILD

ANNUAL DINNER, 1964.

The 73rd Annual Dinner was held at the Chatham Restaurant, Victoria Station, on Wednesday, 27th May, 1964. The total number who attended was 125, the company being made up of the President, Mr. J. S. L. Gilmour, Mrs. Gilmour, 53 members, the remainder being made up of wives, friends and three official guests—Mr. H. Wheatcroft, Mr. S. M. Gault and Mr. C. D. Brickell.

To the attractive background of tables laid out and decorated with the now traditional azaleas, members and their friends gathered to enjoy an informal meeting before the actual dinner, which started at 7 p.m. The menu consisted of Cream of Asparagus—Goujons of Sole, Tartare Sauce—Demi Poissin Rôti, Garden Peas, Roast Potatoes—Soufflé Surprise and Coffee.

The familiar sounds which only a Kew Dinner can produce were interrupted by the toasts and speeches. Soon after the response to the call—Her Majesty, The Queen, Dr. Metcalfe rose to propose the toast of Our President. Much about Mr. Gilmour, he stated, could be gathered from *Who's Who*, but there was, he continued, a great deal more which could be recorded of the man himself. After recounting our President's scholastic achievements, Dr. Metcalfe went back into the past to discuss Kew in the days of J. D. Hooker. A progressive theme developed as Metcalfe "strode" through the years to the present when he stated that we must look to the future as well as the past. Quoting from the Book of Proverbs—"Where there is no vision the people perish", he led his audience back to a consideration of Mr. Gilmour, a course which was well justified, for never has there been a President of the Kew Guild who is more willing or better qualified to look into the future than John Gilmour.

From this point he recalled, in lighter vein, that Mr. Gilmour was the first Assistant Director to own a car which he garaged near the Jodrell Laboratory. He recalled with obvious pride that the President was intensely interested in the Student Gardeners and he described Descanso House as the social centre for the Gardens during this period. Thus the introduction to the President was brought to a close. One felt that it had been a "job well done" by one who was indeed a personal friend and was thus well fitted to speak of the days at Kew when John Gilmour was in office.

The President responded to the toast and first spoke of the wonderful gathering which he had the honour of speaking to. He congratulated the organisers of the dinner who had done so much towards making it a success. He also commented upon the good work which had been carried out by the permanent Officers of the Guild and the Committee. Mr. Gilmour then described a few of the personalities with whom he had served at Kew. He expanded this theme to the background and social life which he found and made during his years as Assistant Director. He described the problems which he had encountered when taking residence in Descanso House as a bachelor of twenty-five, his courting days,

the operettas which he organised for the Kew Dinners, the garden races and the cricket matches.

On more serious subjects, Mr. Gilmour turned first to plant nomenclature and then to the world of horticultural education. After commenting upon the various qualifications to which student gardeners should aspire, he concluded with a reference to the Three-Year Diploma Course and to the new Jodrell Laboratory with its lecture rooms, etc.

After the Toast to the Kew Guild, proposed by The President, that for The Guests was called by Mr. J. M. Fisher, a student gardener. Mr. C. D. Brickell he described as the botanist at the Royal Horticultural Society's Gardens at Wisley, a post which he had held for six years. Mr. Fisher pointed out that a link existed between the three guests, for they had all at some time during their careers grown roses, two in fact, were still engaged in this with great success. Mr. Gault, Superintendent of Regent's Park, was introduced with special reference being made to the fine roses grown in Queen Mary's Garden. The wonderful exhibits of vegetables which he put up in the R.H.S. shows on behalf of St. Andrew's Hospital were also mentioned and it was pointed out that his best year was in 1948 when he won four gold medals and the Lawrence Medal for the best exhibit of the year. Turning to Mr. Wheatcroft, he spoke of the business which this great personality had built up with his brother Alfred from a very small beginning and how, as recently as 1962, he had severed his connection with this original company to form with his sons, the equally successful firm of Harry Wheatcroft & Sons, Ltd.

Responding to the toast, Mr. Wheatcroft stated how honoured he felt to be a guest and to speak at a Kew Dinner. The name Kew, he stated, had spread throughout the world. Having just returned from a tour of Russia, he claimed that on one occasion, the name of Kew was associated with so many toasts that eventually he woke up to find himself under the table. During an amusing but inspiring speech, he described his progress from the time when he left school at an early age. As he sat down one felt that personality had indeed as important a part to play in success as "brain and brawn".

The gathering then left their tables for the bar—more to talk over old times than to drink. As the last of the gathering drifted away and the room was quiet once more, the impression remained that it had indeed been a wonderfully successful evening—the food had been good, the company was largely Kewites and Old Kewites, and everybody had enjoyed it.

THE PROUDLOCK TENNIS COMPETITIONS

are held annually

CUPS FOR LADIES' AND GENTLEMEN'S SINGLES

Only members of the Kew Guild and their families are entitled to compete
Entries must be made to the Hon. Secretary by 1st June, 1965

THE ASSOCIATION OF KEW GARDENERS
IN AMERICA, INC. (1963)

The annual Kew Dinner was held at Essex House, New York City, on the 11th March, 1963, and an enjoyable evening was spent. The party was joined by four Edinburgh men and three wives, bringing the total to sixteen. We were very fortunate to have Roy Thomas (1958) from Bermuda at our meeting.

SAMUEL F. BRIDGE (1939),

Secretary of The Kew Gardeners in America, Inc.

ASSOCIATION OF KEW GARDENERS IN AMERICA
1964 MEETING.

The Association of Kew Gardeners in America held its annual meeting at the Roger Smith Hotel, Lexington Avenue at 47th Street, New York on September 30th. The time and place were chosen so that any who wished could attend meetings of the Nineteenth American Horticultural Congress, Garden Writers Association of America, Inc., and the American Association of Botanical Gardens and Aboretums.

Those present included Mr. William Ing (1905), Mr. G. H. Pring (1906) and Mrs. Pring, Mr. H. T. Riebe (1906) and Mrs. Riebe, Mr. J. H. Beale (1911) and Mrs. Beale, Mr. Henry Downer (1912) and Mrs. Downer, Prof. Donald Watson (1937), Mr. Howard Swift (1937), Mr. Samuel Bridge (1938) and Mrs. Bridge, and Mr. L. Laking (1941). Representatives of the Royal Botanical Gardens, Edinburgh, in this country were Mrs. Mittag (1937) and Mr. Donald Sampson. Mrs. Mittag brought her step-son, Mr. Mackie, and Mrs. Mackie as guests. Mr. John Michalko, Commissioner, Shade Tree Division, City of Cleveland, Ohio, was also a guest. No programme was arranged but, as usual, there were many tales about Kew and experiences related to training there. Mr. Pring and Mr. Riebe had not met since they left Kew, and for them the evening had special significance. Prof. Watson spoke briefly about the need for horticulturally-trained men and for any assistance which could be given to help that need.

The spirit, the enthusiasm and the ability of Kew men in America has made a considerable contribution to horticulture, and it is good to see that these men never really retire from being active in some phase of their chosen work. Perhaps we have never had a more congenial or happier meeting, and we always wish that the number attending could be larger—that we could occasionally have guests from other parts of the world. It was a record meeting that brought Mr. Pring, who has done such notable work at the Missouri Botanic Garden, Mr. Laking, who is making things hum as Director at the Royal Botanic Garden in Hamilton, Ontario, and Mr. Scott, Director of the Tennessee Botanical Gardens and Fine Arts Center, Inc., to join us in New York.

H. W. SWIFT (1937).

NEW ZEALAND BRANCH OF THE KEW GUILD, 1964.

The Annual Dinner was held at "La Scala" Restaurant in Dunedin during the evening of Wednesday, 12th February, 1964.

The local members of the Guild have made a practice of meeting together at least once a year and of holding a formal dinner followed by a short meeting in which matters relating to the Guild are discussed and a time is given to reminiscences.

After a very excellent meal, with wines provided by courtesy of the President, Mr. Barnett, there was a short toast list:—

"The Queen"—proposed by the President.

"The Royal Botanic Gardens, Kew"—proposed by Mr. Taylor.

And

"The Ladies"—proposed by the only bachelor of the group—Mr. Balch.

Present at the Dinner were: Mr. M. J. Barnett* (1914), President, and Mrs. Barnett; Mr. L. Lannie (1939) and Mrs. Lannie-Napier; Mr. J. A. McPherson (1924)—Auckland; Mr. J. G. C. MacKenzie (1934)—Hastings; Mr. J. Short (1940)—Wellington; Mr. D. Leigh (1933)—Nelson; Mr. J. O. Taylor (1947)—Christchurch; Mr. R. Balch (1939)—Dunedin; Mr. A. G. Kennelly (1935)—Dunedin; and Mr. D. C. MacKenzie (1939)—Palmerston North.

The Guest-of-Honour for the occasion was Mrs. D. Tannock from Dunedin. The late Mr. Tannock was the first Kewite to undertake a position of responsibility in New Zealand.

At present there are twenty-five ex-Kewites resident in this country and the local branch of the Guild will welcome information in respect of ex-Kewites who are visiting New Zealand.

D. C. MACKENZIE, *Hon. Secretary*,
17th March, 1964.

* All members of the Guild will sympathise with our "Kiwi" Kewites on the sad loss of their President, Mr. M. J. Barnett (please see obituary).

* * *

Two serial publications by Kew authors appeared during 1964:—

The first a further part of Stella Ross-Craig's "Drawings of British Plants"—Part XX *Plumbaginaceae—Polemoniaceae*. Bell (1964) 11s. 6d.

The other, the first volume of the *Genera of Flowering Plants* by Dr. John Hutchinson, F.R.S., was published by the Oxford University Press on December 3rd, 1964. Since his retirement in 1948, the author has worked on and off in the Herbarium, and he hopes to issue succeeding volumes at intervals of about nine months. It provides keys to and descriptions of all known genera of flowering plants and should replace the classical but long out of date *Genera Plantarum* by G. Bentham and J. D. Hooker. We wish the author success in this vast undertaking.

WEDDING BELLS.

"Marriages have been infectious, and we wish every happiness to those in harness. There are rumours of other marriages."

Mr. Ronald Rule (Gardens Staff) to Miss Ann Sheppick on 6th July, 1963, at St. Anne's Church, Kew Green.

Mr. Andrew McKail Geddes (1961) to Miss Janet Anne on 6th June, 1964, at St. Paul's Presbyterian Church, Gurton Street, Wanganni, New Zealand.

Mr. Fairman R. Jayne (1961) to Miss Kate L. Hearne on 21st June, 1964, at London Grove, Pennsylvania.

Mr. Gilbert Briscoe (1961) to Miss Patricia Southey in Grahamstown, Cape, S. Africa.

Mr. W. T. Preston (1962) to Miss Vera Langley on 5th January, 1963, at Ealing Broadway Methodist Church.

Mr. A. D. Schilling (Staff) to Miss Diana Ruth Sibley on 19th December, 1964, at Christchurch, Brockham, Surrey.

Mr. P. F. Hunt (Herb. Staff) to Miss D. Cousins (Herb. Staff) on 5th October, 1963, at All Saints Parish Church, Banstead.

Mr. A. T. Wood (1960) to Miss Mary G. Wheeler on 29th December, 1962, at Wye Church, Nr. Ashford, Kent.

Mr. T. Matthews (1962) to Miss Mary Shoulders on 16th March, 1964, at Holy Innocents Church, Kingsway, London.

Mr. Victor N. Zacharov to Dr. Margaret Y. Stant (Jodrell Laboratory Staff) on 25th March, 1964, at Kensington Register Office.

Mr. A. G. Hitchcock (1960) to Miss K. A. Woods at St. Andrew's Church, Livingstone, Zambia.

Mr. Brian Haylock to Miss Margaret Thompson, on 15th August, 1964, at St. Mary's The Virgin, Sunbury-on-Thames.

ABORICULTURAL ASSOCIATION

It is interesting to record that Kew men are playing a substantial part in the affairs of the newly constituted Association.

Sidney Pearce and Noël Prockter are Chairmen of the Educational and Editorial Sub-committees respectively, and Anthony Dunball is editor of the Journal. In addition, Hubert Taylor and George Joy are members of the Executive Committee and Donald Wells is the Association's Chairman. Kew is also well represented in the general membership classes.

It is hoped that Kew men everywhere will rally to the support of this very necessary enterprise which is designed to provide a channel for the dissemination of knowledge and experience concerning every aspect of aboriculture in this country. It will also cater for the elevation of the standards of aboricultural practice and provide better career prospects for young men entering the profession.

Particulars and forms of application may be obtained from the Secretary : Mr. D. R. Honour, 38 Blythwood Gardens, Standsted, Essex.

THE STUDENT GARDENERS' ASSOCIATION.

(Now known as the Students' Union.)

The year 1963-64 has been one of activity for the Association. The commencement of the three-year course in October has perhaps brought the greatest changes at Kew so far as the students are concerned, but of course, it has brought certain problems. Kew is turning its eyes to the future and recognising the need for the high training which is now being given.

The appointment of Mr. L. Pemberton as Supervisor of Studies will lead to changes in the functions of the Association. On reading through many of the old minute books, back as far as 1914, I felt that the students had to a large extent, influenced the policy for training, especially on the theoretical side. This influence even spread to discussions upon the display of examination results on the certificate. All this is now changed! We now have a person in charge who has a wide experience of horticultural education and this is a more satisfactory state of affairs. Everybody has been much happier since he arrived and I have noticed a growing enthusiasm among the students.

This does not mean that the work of the Association is finished. On the contrary, there is now more than ever to do! In the educational field, the Association again organised a series of summer lectures (a list of these is given below). We have taken the students' various problems, ideas and complaints to the Kew administration. We extend our thanks to Sir George Taylor, the Director, Mr. King, Mr. Stenning, Mr. Pemberton and others for the time they have spent and the patience they have displayed in dealing with the various matters which we have put before them. On occasion we have had our way but on others, and often rightly, we have not. Where we feel we are justified, members may rest assured that the Committee will persevere with the true spirit of the Association.

The Awards for the Plant Identification Test were as follows:—

October, 1963 to March 1964—M. Dodge.

March, 1964 to October, 1964—M. Dodge.

The series of lectures which were arranged during the summer and given by external speakers were as follows:—

1. "Horticulture in West Africa" by Mr. H. D. Tindall on 20th July, 1964.
2. "Some Modern Trends in Plant Cultivation" by Mr. L. C. Chilcott on 10th August, 1964.
3. "An American Tour" by Mr. R. C. G. Leeman on 17th August, 1964.
4. "Films and Lecture on Landscape Architecture" by Mr. I. C. Mackenzie on 24th August, 1964.
5. "The Principles of Grafting and Fruit-Tree Raising Today" by Mr. R. J. Garner on 7th September, 1964.

6. "The Parks Office and its Personnel" by Mr. J. M. M. Mackellar on 21st September, 1964.
7. "Floral Display in Parks" by Mr. J. R. B. Evison on 28th September, 1964.

Finally I would like to thank this year's Chairman, Mr. F. A. Overland; the Treasurer, Mr. C. Duncan and the two Committee members, Mr. D. Pearson and Mr. J. Fisher, for all the work they have carried out on behalf of the Association. I also wish the new Committee and the Association itself every success during the year 1965.

R. F. DEANS, *Hon Secretary.*

SPORTS AND SOCIAL CLUB.

During the past year there has been a marked improvement in support for the club. It has grown from strength to strength, a fact which is encouraging for with the new Three-Year Course well established, a very good future for the club is assured. The Football Pontoon and the Christmas Draw were successful and the Club's finances are in a very sound position. The social life has received a big boost through the energies of the Secretary and in the forthcoming year our activities should take a new look.

The sporting sections have had a very successful year. One of our closest rivals, Wisley, was beaten at Cricket, Football, Table Tennis and Athletics. The Kew team also won the Howell-Thomas Cup at the Civil Service Sports Day—an award which has in the past always eluded us.

The election of officers for the year was as follows: President, Dr. C. R. Metcalfe; Chairman, Dr. K. Jones; Treasurer, R. I. Beyer; General Secretary, E. Scarr; Social Secretary, C. Gordon; and Assistant Social Secretary, K. Robinson. The Section Secretaries: Cricket, J. Endall; Hockey, J. Mitchell; Football, J. Endall; Athletics, D. Waddell; Mountaineering, A. D. Schilling; Music, J. O'Connor; Photography, R. Brown; and Table Tennis, P. Wilson. The Departmental Representatives: Herbarium, Miss S. Willshire; C.M.I., Miss J. Morgan; and M.A.F.F., R. Fender.

The thanks of the Club are due to all who have helped to make the past year such a successful one.

E. D. SCARR, *Hon. Secretary.*

* * *

The eastern end of the floor of the lake was cleared of mud, etc., in the autumn 1964. Approximately 1,000 cubic yards of mud were removed and this has been left to weather among the trees. Fortunately the floor of the lake is formed of solid gravel and this allowed free movement of the tractors.

SOCIAL SECTION.

During the course of the year the activities of this section have been well supported and this has been an encouragement to make plans for future events—for example, the introduction of “square dancing” is being considered.

As an experiment music was provided during our hops by a record player. This we found provided a greater variety and enabled many more people to dance. Through the kind assistance of Mr. J. Dempsey, the publican at the “Coach and Horses”, we have successfully managed our own bar at these functions.

The big event of the year was the Kew-Wisley Race Dance which was held in the Boathouse. It was highly successful—Kew students of course, had much to cheer about, having won the race by a considerable margin. Mr. C. Popham, who was at that time the Social Secretary, had this event very well organised.

During the Summer an attempt was made to organise a barbecue which was to be attended by both the Kew and Wisley students. There was, however, a danger that this would have clashed with the Wisley examinations and the idea was therefore dropped.

The 1964 Christmas Dance was held at the Star and Garter Hotel in Richmond. The function was well attended and the evening most enjoyable. Mrs. Metcalfe presented the annual awards of the Photographic and Athletics Sections. The annual Christmas Draw was also made, the prizes being ten, five and three pounds, with five consolation prizes of chocolates and cigarettes. Mr. J. Woodhams very kindly organised this draw for the second consecutive year.

The Social Secretary has formed a sub-committee which consists of Messrs. K. Robinson, J. Mitchell, E. Scarr, W. Bessler and Miss. S. Willshire. Looking to the future, the year 1965 offers many prospects. Fortnightly “record-dances” are a possibility and a greater social contact with other training institutions and colleges in the area to be encouraged.

I wish to thank all those who have been of assistance throughout the year and in particular, Mr. C. Popham, my predecessor, who did much to revitalise the social life at Kew. Finally my thanks go to Mr. K. Robinson, who filled the post of Assistant Social Secretary admirably.

CLIVE E. B. GORDON, *Hon. Social Secretary.*

Miss Mea Allan, author of *The Tradescants. Their Plants, Gardens and Museum, 1570-1662*, is now engaged in writing an account of the lives of Sir William J. and Sir Joseph D. Hooker. She frequently visits Kew in connection with this work and has expressed great interest in the photograph of Sir Joseph and Lady Hooker which appear in the 1922 issue of the *Journal*—Vol. IV, No. XXIX, page 118.

CRICKET SECTION.

The 1964 season seems to have been an average one, Kew having won four matches, lost five and drawn one. Four of the original fixtures were cancelled at the request of the opposing side. There were two "novelty" matches, one was among the students between the "Northerners" and the "Southerners" when the former won by six wickets. In the other, between staff and students, the former won by nine runs.

The season began with a visit to the John Innes Institute but Kew lost by four wickets. On the 6th June, ten Old Kewites beat the students' team by 40 runs—W. T. Preston (1962) 16, J. Maddox (1963) 14, G. Ganney (1961) 16, D. N. Pierce (1964) 19, T. Risely (1958) 26 and R. T. Kerr (1959) 16. Other contributors to the total of 188 were K. W. Scales (1960), M. Clift (1958), A. Porter (1959) and P. Bridgeman (1964). Dismissing Kew for 78, J. Maddox took 4 for 18, K. Scales 3 for 7 and R. Kerr 2 for 7. I would like to take this opportunity of re-echoing the cries of former secretaries by suggesting that the organisation of the Old Kewites' team should be for one of the Guild Members. Are there any volunteers?

We were well beaten by Richmond Nomads in a game on the Old Deer Park. Our opponents scored 78 runs; D. Hellewell taking 3 for 19 and J. Elsley 6 for 38. The weather was miserable and so was the performance put up by Kew—we were dismissed for 38. Our heaviest defeat of the season was suffered at the hands of Ilford Parks Department on Kew Green. The visitors totalled 230 for 5 declared, including a century by one of their players. Kew's score totalled 56, only J. Fisher and J. Endall reaching double figures. We again lost to Ilford later in the season, scoring only 42 runs against our opponents' score of 104.

The game against Wisley was exciting, for at one time we were 32 for 6. The fact that Kew's score was finally 86 runs was due mainly to the efforts of D. Hellewell (12), A. Herron (14), A. Keevil (12) and J. Fisher (22 not out). Wisley scored 64 runs, D. Hellewell taking 9 for 25, a magnificent performance during which he hit the wicket eight times.

We were successful in the first visit to Hilliers Nursery (Winchester) for a cricket fixture. C. Gordon took 6 for 8 in our opponents' score of 79 runs. During our batting a good start was made by C. Gordon (24) and D. Pierce (9); despite a collapse which followed, Kew still won by two wickets. On the return match, with only nine men, Kew did well to bring about a draw. Hilliers declared at 108 for 8 (J. Fisher taking 5 for 50). We were 62 for 8 when the stumps were drawn, J. Fisher having made 36. When John Innes visited us they totalled 112, J. Elsley taking 6 for 41. D. Pierce (50) and C. Gordon (36) again made their presence felt and Kew won by 8 wickets.

We saved our best batting performance for Cambridge Botanic Garden and avenged the defeat of the previous seven years.

C. Gordon (56) and E Scarr (43) had 50 on the board in half an hour and made 91 before being separated. The final score for Kew was 156, which included six 6's. D. Hellewell took 8 of the Cambridge wickets for 31 in twelve overs, seven of which were maidens. The 8 wickets included six bowled, the 31 runs included four 6's! Cambridge managed 50 before they succumbed to the Yorkshire terror. Again J. Fisher toiled without any reward for his labours, his figures being 12 overs, 5 maidens, 16 runs and 1 wicket.

The batting average for the season was topped by J. Fisher with 19 runs, C. Gordon being a close second with 18.9. Of the bowling averages, C. Gordon took 16 wickets for 84 runs at a cost of 5.25 runs each, while D. Hellewell, who bowled almost three times as many overs and took twice as many wickets, finished second.

In conclusion I must thank the Captain, Jeff Fisher, and the Vice-Captain, Dave Hellewell, for their great help in making my year of office such an enjoyable one.

COLIN W. ROOME, *Hon. Secretary.*

PHOTOGRAPHIC SECTION.

The annual colour slide competition remained one of the main events of the year with a near record entry of 120 slides. The competition is divided into two sections—Plant Portraits and General.

All the prizes in the first section were gained by A. Barnes. Placed first was Clematis "Nelly Moser", second Lilium "The Duchess" and third Catalpa bignonioides. (All three were on Perutz film). In the second section the first prize was awarded to M. Hutcheson with "Steam and Snow" (on Agfa), second C. Hart with "Autumn in Anglesey" (on Agfa) and third J. Mitchell with "A Welsh Lake" (on Kodachrome II). The prize for the best plant portrait is generously donated by Mr. S. Rawlings while the remainder are awarded by the club.

Early in the year a lecture on "Matters Photographic" was given by Mr. Rawlings. A number of lectures have been planned for 1965.

The slide collection which is housed in the Gardens Library continues to grow through the generosity of a few kind members and Kewites. Contributions to this collection will be most gratefully received—they should be sent to the Photographic Secretary.

The income of the section is derived entirely from the profits which are made from the sale of photographic items. These are sold at a 5% discount, the club gaining a 2½% profit. The club has in fact been entirely self-supporting.

ROGER D. BOWEN, *Hon. Secretary.*

FOOTBALL SECTION.

We can claim to have played very little football during the past season, but in May we did take up training for the six-a-side competition in the Ministry of Agriculture Sports held at Chiswick in July. This actual event for which we trained was not a great success, for we lost in the first round by a disputed goal, but the training carried on throughout the summer and even into the short days of the winter, when we practised during the Friday dinner hour.

The team has on the whole been a fit one—we have played six games and have won them quite comfortably. Six more fixtures have been made for 1965 and in addition we are to take part in two six-a-side competitions.

The number of players has unfortunately dwindled a little, but our recruitment is very active. Our enthusiasm has been encouraged by Dr. Metcalfe who has enabled us to provide a set of football jerseys in the new Kew Colours—blue body, red neck and cuff. Our wish is that we go ahead, from strength to strength.

JOHN ENDALL, *Hon. Secretary.*

HOCKEY SECTION.

The 1963/64 season was a poor one for there were many cancellations and the results were very disappointing. The final analysis was: won one and lost nine with ten matches being cancelled for various reasons.

The prospects for 1964/65 are more encouraging. Twenty fixtures have been arranged, fourteen mixed and six all men. Weekly practices commenced in late August to enable the unskilled members to master the arts of the game before the first match.

The support has been very good, with twenty-four playing in the games so far. The only person who has played in all the matches is our captain and the top goal scorer is Mike Evans from the Herbarium Staff—unfortunately he has left Kew, but we wish both him and his wife well for the future.

Our record up to Christmas was—won five, drawn two and lost two; having scored twenty-five goals against twelve.

J. MITCHELL, *Hon. Secretary.*

ONE HUNDRED YEARS AGO.

The year 1864 was a busy and profitable one in the Herbarium, with an ever-increasing amount of time being devoted to the "Colonial Floras". Professor D. Oliver had been appointed Keeper of the Herbarium and Library on the 1st January, 1864. George Bentham came to Kew almost daily to prepare the accounts of Leguminosae for the "Genera Plantarum" and for volume two of his "Flora Australiensis", published later in 1864. Sir Joseph Hooker was writing the final portion of the first part of his *Handbook of the New Zealand Flora* published later in the year. (Herb. News).

ATHLETICS SECTION.

KEW-WISLEY ROAD RELAY RACE.

This was held on 7th March, 1964. After early morning snow showers, the weather settled down, leaving us with long sunny periods, but also a very cold strong head-wind. The Kew Team had a very large following of supporters behind them when the race was started by Mr. Knight, Director of Wisley.

Six teams arrived on the starting line. But after fruitless efforts to contact any members of the Writtle team the race finally got under way without them. The first lap proved extremely close and all the runners put up creditable performances. Before the final uphill section Andy Keevil of Kew led the field, finally finishing the lap in fourth position—an extremely good effort.

The second lap for Kew was run by Dave Waddell who, after a splendid effort, pulled us back to second place only 30 yards behind the leading team, Sittingbourne. The third Lap proved to be the most significant, running with considerable power Angus Heron soon took us into the lead and, at the end of the lap, had opened up a formidable 400 yards lead. Mike Dodge was the next Kew runner and over his long flat lap increased our lead again. Geoff. Spate once again showed that the fitness of the Kew team must show in results by still further increasing our lead, even at this stage the opposition seemed well beaten! The last lap was completed by John Elsley, to give Kew their second victory in two years. The final Kew time of 1 hr. 36 mins. 49 secs. was remarkably good considering the extreme cold and lack of competition over the final laps. Wisley pulled back well in the final stages to finish in 1 hr. 41 mins. 18 secs., while Sittingbourne finished third in just under 1 hr. 42 mins. Swanley fourth and Cambridge fifth.

J. ELSLEY, *Retiring Hon. Secretary.*

CIVIL SERVICE SPORTS DAY.

This was once again held in late June under a scorching sun at Chiswick and we did extremely well. This was due to the fact that so many ran "en masse" for half points and one person, J. Elsley, who won the 100 yds., the "Gwilliam Cup", the 220 and the 440 yds. He came second in the long jump with 19 ft. 10 ins. and fourth in the high jump. This gave us a grand total of 83½ points against the S.E. Region's 64 points.

Thus we were able, for the first time, to take away the Howel Thomas Cup for the region gaining the most points. J. Elsley also shares the Heathcoat-Amory Cup with a lady from the S.E. Region, which is the lady or gentleman getting the most points in the 100, 220, 440 yds., long and high jumps. This usually goes to a lady as they have so much less competition. Other successes were: D. Coleman second in the 440 yds.; A. Barnes third with 18 ft. in the long jump and B. Penberthy third in the half and 1 mile races.

CIVIL SERVICE CROSS COUNTRY CHAMPIONSHIP.

This was held in Richmond Park in mid December over a five-mile course. We again helped to make up the Ministry Team which came 4th out of 12 teams. Out of 94 runners Kew did very well, B. Penberthy 23rd, J. Elsley 32nd, D. Waddell 65th and G. Graham 74th.

CLOG AND APRON RACE.

Dr. Hubbard, who started the race, gave a bottle of sherry and also cider to the winners. It was an exciting finish, J. Eaton just beating A. Keevil in 57 secs. with D. Coleman third. J. Eaton also received the Pearce Cup, presented for the first year by Mr. Pearce for the winner of the race. Cynthia Warner also received a bottle of cider for being the only girl brave enough to challenge the lads. Mr. Pearce provided cider to revive all the competitors.

ROUND THE GARDENS RACE.

Mr. King started this race which was won by B. Penberthy in a fast time of 12 mins. 57 sec. (Decorative Department), 2nd J. Elsley, 13 mins. 50 secs. (Tropical Department), 3rd A. Heron, 13 mins. 58 secs. (Arboretum S.), 4th D. Coleman (Decorative Department). The Decorative Department won the Departmental Cup.

We also did very well in other races, the "A" team coming 13th out of 18 in the General Electric Companies Road Relay Race in late January (our "B" team only consisted of three runners. In May in the *Lensbury Athletic Club's Road Relay* we came 8th out of 14, even better than last year. In the *London Transport (Central Road Services) Road Relay* in late September we came second out of seven teams, J. Elsley being 1st, 15 mins. 29 secs., N. Goddard 4th, 16 mins. 48 secs., B. Penberthy 2nd, 14 mins. 40 secs., D. Coleman 2nd, 16 mins. 50 secs.

A very successful year—my thanks go out to all who have helped to make it so. The Kew-Wisley Race for 1965 is on 6th March; let us hope it will be the hat trick.

D. WADDELL, *Hon. Secretary.*

TABLE TENNIS SECTION.

The section has been in existence for eighteen months. A room and table have been loaned to us by the proprietor of the Coach and Horses Inn, Mr. J. Dempsey, where the club meets every Tuesday evening. The popularity of the sport seems to dwindle during the summer months but it proves to be very popular during the winter.

Of the matches during the past year—we played Wisley twice and beat them. Against this however, we were defeated by the Institute of Parks Administration and by the nurses of Richmond Royal Hospital.

PETER E. WILSON, *Hon. Secretary.*

THE MUSIC CIRCLE.

During the past year regular meetings have been held at the home of Dr. and Mrs. Metcalfe in Pensfold Avenue. On looking back through old copies of the *Guild Journal* I find that the Music Circle has been held at Pensfold Avenue for a seemingly innumerable number of years. There must be countless numbers of former Staff and Students in every part of the world who, on hearing a snatch of Wagner, Beethoven, Mozart or Bach, immediately think back to the warm welcome and lavish hospitality which greets everyone at the Metcalfe's home and in particular to Mrs. Metcalfe's great charm and unrivalled skill as a hostess.

In choosing records this year I have tried to confine the selection to the better known works of the more popular composers. Attempting to assuage the wrath of those who claim that Music Circles are inclined to be formal affairs, I have included lighter items like Belloc's *Humerous Verse* and (to Mac's intense indignation) selections from Gilbert and Sullivan Operas.

To conclude I would like to express my sincere thanks to Dr. and Mrs. Metcalf for their unfailing hospitality and at the same time to extend a warm welcome to anyone who would like to come to the Music Circle in the future.

J. O'CONNOR, *Hon. Secretary.*

LAWN TENNIS CLUB REPORT, 1964.

A very good season was enjoyed by the enthusiasts, thus it is to be regretted that they are not as numerous as could be wished. The changing pattern of social life with the cost of living at Kew forcing many to make their homes further out of London, the age of the ubiquitous automobile facilitating week-ends away and the diversity of recreational activities available, makes difficult the maintenance of an active competitive club.

However, three excellent matches with the Natural History Museum, played for a cup generously donated by our opponents, were highly successful, except in the minor regret, that losing 2—1 the cup currently resides with them. Two matches, honourably lost, were played with the Queen Elizabeth College. The students' match against Wisley was unfortunately cancelled.

A good series of matches culminated in the cup for the Proudlock Men's Singles Tournament being won by Dr. R. Brummitt. Entries were unfortunately insufficient to make possible the playing of the Ladies' Tournament.

The labour of maintaining the courts in good condition largely devolved on Mr. G. Yates, Mr. C. Preston and Mr. W. Lewis, whose hard work is much appreciated.

The Club wishes every success to Mr. M. Bentall, Mr. and Mrs. Evans and Mr. J. Lewis, who unfortunately will not be with us next season.

R. M. POLHILL, *Hon. Secretary.*

EDITORIAL

Reference to the 1921 copy of the *Journal*, p. 35 will disclose a very controversial article by the late Mr. A. S. Galt entitled "The Kew Guild and the Land of No Endeavour". This very keen Kewite, who was at one time Lecturer and Organiser of the Horticultural Department, Leeds University, and whose obituary appears in the 1937 issue on page 700, made in this article what he described as a "damning indictment". The article reads on: "The Kew Guild, if it is to live, must be useful, and to be useful it must wake up. It must have both policy and purpose. It must live—or die unregretted—and begin to live now. It must do something." As worthy as the Guild and its members were at this period, Galt's object was to set the pace for a period of greater activity—subsequent *Journals* prove that he succeeded.

Now that the Guild is officially recognised as a Charity we have more than ever to be interested in its activities. It is therefore important that as many members as possible attend the Guild's functions—the Annual Dinner and the Annual General Meeting. Equally important is that the members who attend play as much part in the proceedings of the Annual General Meeting as possible. The Guild has made its greatest advance yet in becoming a charity.

* * *

Tenth International Botanical Congress, Edinburgh. It was estimated that 69 countries represented by 3,500 members and their wives were present, including 843 from Britain, 722 from the United States, 30 from the Soviet Union and 100 from East and West Germany.

The following members of the staff attended the Congress officially: Sir George Taylor, Dr. Melville, Dr. Reid, Mr. Bullock, Mr. Brenan, Mr. Sealy, Mr. Meikle, Mr. Clayton, Mr. Hepper, Mr. Forman, Dr. Jarrett, Mr. Jeffrey, Dr. Metcalfe, Dr. Jones, Mr. Cutler, Dr. Marchant and Mr. Russell. Dr. Brummitt and Miss Hooper also attended.

Many delegates to the Congress visited Kew on Friday, 14th August, in all there were 113 botanists and their wives from 35 different countries. They assembled at 10 a.m. and after being divided into small groups, were conducted round the department of the Gardens by members of the staff. After lunch in the Orangery they examined the 21 exhibits on display there; these covered the history and organization of the Gardens and various aspects of their work. There was also an extensive range of books on view in the Herbarium.

The exhibition was open to the public from 1—5 p.m. on Saturday, 15th and Sunday, 16th August, 1,093 persons attending the first day and 3,030 on the second. (Herb. News).

NOTES AND GLEANINGS.

"The chief object of the Guild is to 'watch' and record the careers of its members."
W. J. Bean.

AWARDS AND SUCCESSES.

The following awards have been made by Her Majesty The Queen in the New Year Honours List, 1965 :—

The C.B.E. to Dr. C. E. Hubbard, O.B.E. (Deputy Director, Kew).

The B.E.M. to Mr. D. D. Smith (Constable, Kew).

R.H.S. Honours and Awards for 1964 :—

The V.H.M. to (the now late) Mr. L. Stenning, M.B.E., A.H.R.H.S. (Curator, Kew).

Honorary Fellowship to Mr. V. S. Summerhayes, O.B.E., B.Sc.

A Gold Medal (The Veitch Memorial Medal) was awarded in 1963 to the Director, Sir George Taylor, for his contribution to horticulture as a member of many international committees, for his guidance in research and development and for his outstanding success as Director of the Royal Botanic Gardens, Kew.

Mr. G. W. Robinson (1937) formerly Curator of Oxford Botanic Garden, was awarded an Honorary Degree of Master of Arts from the University of Oxford. Mr. Robinson was previously curator of Chelsea Physic Garden and still earlier, Assistant Curator of the Herbaceous Department at Kew.

Dr. C. R. Metcalfe on the recommendation of the Fellowship Committee, has received and accepted an invitation from the Council to become a Fellow of the Institute of Biology. Fellowship, as distinct from Membership of the Institute, was first introduced early in 1963 "to confer distinction on biologists of high professional standing".

Dr. R. W. G. Dennis received a special merit promotion to the rank of Senior Principal Scientific Officer.

The Frank Kingdon-Ward prize for 1964 has been awarded jointly to M. Bentall and J. E. Elsley.

Mr. J. Elsley (Student) was successful in winning the Essay Competition sponsored by the Royal Caledonian Society. The subject for the competition was — "The Part Played by F.I. Hybrids in Modern Horticulture."

Dr. John Hutchinson celebrated his 80th Birthday on 7th April, 1964. He also completed his 60th year at Kew. In the evening of this day a dinner was given in his honour at Gardens' Restaurant. Many past and present members of the staff attended.

Mr. V. S. Summerhayes retired on 31st August, 1964, after serving over 40 years in the Herbarium. During much of this period he was in charge of the Australasian collections in addition to the Orchidaceae. On the evening of 24th July, a dinner was given in his honour in the Gardens' Restaurant. About 60 past and present members attended.

In an announcement made in early December, 1964, the Massachusetts Horticultural Society has awarded the George Robert White Medal of Honour for 1964 to the Royal Botanic Gardens, Kew.

The citation reads as follows : " The Royal Botanic Gardens, Kew, England, for its wide influence on Horticulture during more than a century of extensive activities. By means of introducing, growing, describing and distributing plants from all parts of the world, it has become the accredited international centre for practical and scientific information concerning the plants grown around the globe."

The medal is to be presented at the Annual Luncheon on 3rd May, 1965, in the Horticultural Hall, Mass.

Dr. D. A. Reid, of the Herbarium Staff, has been awarded a Ph.D. degree by the University of London.

Also Dr. D. J. Marchant, of the Herbarium Staff, has been awarded a Ph.D. degree by the University of Southampton.

Mr. Martin J. S. Sands was awarded a B.Sc.(Honours) degree at King's College by the University of London.

NATIONAL DIPLOMA IN HORTICULTURE, 1964 :—

Finals :—

Section 1—General Horticulture :—

J. B. Gaggini (1963).

G. W. Messenger (1957).

Intermediate :—

J. Kerr (1960).

DIPLOMA OF ARBORICULTURE, 1964.

A. D. Schilling (until recently Foreman in Arboretum Nursery).

CERTIFICATE OF ARBORICULTURE, 1964.

M. Dodge, (1964).

INSTITUTE OF LANDSCAPE ARCHITECTS FINAL EXAMINATION.

E. V. R. Rolls (1948).

P. Haywood (1950).

* * *

Bequest to Kew—A legacy of £17,600 has been left to the Royal Botanic Gardens, Kew, under the Will of Miss Florence Hamilton, Exmouth. The money will come to the Trustees of the Bentham-Moxon Trust and the additional income will help in furthering the work which the Trust undertakes in the botanical field and enabling it to undertake new work of the same kind. (Herb. News).

KEWITES AT HOME.

The Kewites on Course 26 at the College of Park Administration have taken the following appointments :—

- Mr. R. C. A. Barnett (1962)—Assistant Landscape Architect, Israel.
- Mr. D. J. Breach (1963)—Technical Assistant, Derbyshire County Council, Architects Department.
- Mr. J. D. Higham (1963)—Senior Gardener, Misc. IV, Liverpool Parks Department.
- Mr. M. J. Griffin (1963)—Landscape Draughtsman, Croydon County Borough Parks Department.
- Mr. G. Leaver (1963)—Technical Assistant, Warrington.
- Mr. R. C. Ward (1963)—Landscape Assistant, Harlow Development Corporation, Essex.
- Mr. H. Bell (1963)—Landscape Draughtsman, Ministry of Public Building and Works, Chessington, Surrey.

The following Old Kewites have commenced Course 27 (1965) at the College of Park Administration :—

- C. B. Pead (1964) ; J. D. Hellewell (1964) ; M. Bentall (1964) ; B. J. Salter (1964) ; and G. Spate (1964).

After leaving Kew in October, 1964, Messrs. M. Bentall and B. J. Salter took part in a three-month tour of the Middle-East with a land rover.

Mr. R. A. Bee (1953), who was previously Park Superintendent at Lewisham, is now Deputy Director, Manchester Parks Department.

Mr. K. M. Fellows (1963) has left the position of "Technician" at the Botany Department, University College of London, and is now Landscape Assistant with the Manchester Parks Department.

Thus Manchester remains a strong-hold for Kewites :—

- The Director—Mr. R. C. McMillan (1928).
- The Deputy Director—Mr. R. A. Bee (1953).
- District Park Superintendents—
 - Mr. A. J. W. Cheek (1929).
 - Mr. L. J. Mahon (1948).
- Head Gardener—Mr. A. J. Mitchell (1963).
- Landscape Assistant—Mr. K. M. Fellows (1963).

The August, 1964, issue of *Park Administration* contains a short biography of the President of The Institute of Park Administration, 1963-64—Mr. F. H. Eul (1935). The following account of his activities in this field is interesting and it will give the young Kewite a good idea of the important part the Park Superintendent can play in Physical Recreation—"Mr. Eul was first elected to the Council of the Institute of Park Administration as a member of the London

Branch in 1944. He became Secretary of the South-Eastern Branch and has remained on the Council since that date. He has served on all of its committees, was Chairman of the Membership Committee, and Vice-Chairman of the Examination Board. He represents the Institute on the Council of the National Playing Fields Association and the Executive Committee. Recently he has been appointed to represent the Institute on the Council of the Central Council of Physical Recreation. He is a member of the Landscape Work-Terminology Committee and the Playgrounds Committee of the British Standards Institution and is also on the Executive Council of the Kent Playing Fields Association"—and, of course, Mr. Eul is a Guild Committee Member.

Mr. J. Warrington (1962) took up the post of Curator of the Birmingham Botanic Garden on 20th April, 1964.

Mr. P. Maunder (1954) has taken over the post of Deputy Parks Superintendent of Portsmouth from Mr. H. A. Bowles (1949).

Miss L. Atkinson (1958) is employed at the Derbyshire Farm Institute and is stationed at Bakewell.

Mr. H. G. Butcher (1921) has retired from the post of Superintendent of Epsom.

Mr. T. E. Clark (1924) has also retired from the Superintendent post at Bolton.

Mr. W. Howell (1925), Deputy Parks Superintendent, Beckenham, retired after serving the authority for 32 years.

Mr. W. Howell is now on a tour of New Zealand and Australia having retired from the post of Assistant Superintendent of Beckenham Parks Department.

In a letter sent to Dr. Hubbard in December, 1964, he stated that he was then the guest of Mr. J. A. McPherson (1924) at Auckland. He had visited Dunedin, Mt. Cook, Hooker Valley, Christchurch, Lincoln College and Nelson. Mr. Howell also visited Mr. A. W. Anderson (1926) who—he states—"has got together an amazingly good representative collection of native plants and has successfully established them in scree, crevice and tussock conditions."

At the time of writing he had seen five Kewites.

Mr. D. G. Pearce (1960) was appointed Chief Technical Assistant of Birmingham Parks Department in September, 1964.

Mr. R. Marshall (1964) is Assistant to the N.A.A.S. Officer at Canterbury, Kent. He took up this appointment in the Autumn, 1964.

Mr. C. E. Cherry (1938) has been appointed Park Superintendent of the new London Borough of Sutton. The new Borough includes Sutton and Cheam, Carshalton, Beddington and Wallington.

Mr. R. F. Deans (1964) has taken up the appointment of Landscape Assistant with Messrs. Hillier & Sons, Winchester.

Mr. E. V. H. Rolls (1948) was appointed Landscape Architect to the South West Regional Hospital Board. He took up his appointment on 1st December, 1964.

Mr. P. A. Haywood (1950) has left the Ministry of Public Buildings and Works and is now Assistant Landscape Architect to the Central Electricity Generating Board.

Mr. F. W. Fisher (1939), serving with the War Graves Commission, has left France and is now stationed at Brookwood Cemetery, Surrey.

Mr. G. Littlewood (1952) has moved back to England as Landscape Architect to the County Architects Department, County Hall, Matlock, Derbyshire.

Mr. H. P. Barnes (1960) has moved to the post of Assistant Director of Parks, Dundee.

Mr. D. MacGuffey (1951), Superintendent of Parks, Sheffield, took up the post of Superintendent of Parks at Eastbourne on 1st February, 1964.

Mr. H. G. Butcher (1921), retired as Superintendent of Parks, Epsom and Ewell on 2nd October, 1964.

Mr. H. R. Horsfall (1958), previously Technical Assistant, has been promoted to Deputy Parks Superintendent.

Mr. L. A. Foote moves up to Technical Assistant.

Mr. C. R. Stock (1927) has been appointed Director of Parks to the London Borough of Bromley which includes Beckenham, Bromley, Orpington, Penge and the Chislehurst district of Chislehurst and Sidcup U.D.C.

Dr. D. J. Dyke (1961) has completed his Post Graduate Course in Landscape Design in the Town and Country Planning Department of Newcastle University. This course led to the Diploma in Landscape Design. He is now employed as a Landscape Architect in a private capacity.

Mr. J. Aldous (1962) is now Landscape Assistant to the Stevenage Development Corporation.

Mr. Coates (1949) wrote in recently. "Charlie" (late propagating Foreman of the Arboretum Nursery) keeps a very active interest in his garden growing vegetables and fruits in addition to ornamental subjects.

Mr. T. H. Parsons (1913) is still going strong. He cultivates an allotment in a corner of Cheam Park "with great gusto!"

Two Old Kewites, Mr. J. S. L. Gilmour (1946) and Mr. J. W. Blowers (1945) represented the Royal Horticultural Society at the Fourth World Orchid Conference held in Singapore in October, 1963.

Mr. Gilmour also represented the R.H.S. at the Tenth International Botanical Congress held at Edinburgh in August, 1964.

On page 137 of the Journal of the Royal Horticultural Society, April, 1964 (Vol. LXXXIX, Part Four) the following Kewites and Old Kewites are listed among the Council and Officers for 1964 : —

Of the Vice-Presidents—Sir Edward J. Salisbury (1957).

Of the Council—

Mr. J. S. L. Gilmour (1946).

Sir George Taylor (Director).

Professor of Botany—Sir Edward J. Salisbury.

Director of Wisley Garden—Mr. F. P. Knight (1929).

Editor of *Curtis's Botanical Magazine*—Sir George Taylor (Director).

* * *

In a recent letter, dated 2nd June, 1964, Mr. Matt Nicholls states : —

“Mr. John Gribble (1895) is still going strong. On the 14th April he celebrated his 94th birthday. During the summer months he lives alone but spends the winter with his daughter at Falmouth.

“I physically keep fit. I reached the age of 88 last February but sorry to say my legs do not let me get far.”

Our congratulations and best wishes Mr. Nicholls and Mr. Gribble.

* * *

News of the grant of arms to the Guild was printed in a number of the papers—*The Guardian* (on 13/6/63) and *The Times* (on 17/6/63). The following extract was from the *Daily Herald*, London (on 19/6/63) : —

“FLOREAT KEW

Never having had any urge myself to own a coat of arms, I do not know what moves people to ask the College of Heralds to grant one.

The Kew Guild, though, do not share my attitude. They got their arms the other day. (The Guild are an association of past and present members of the Kew Gardens Staff.)

But what an unoriginal motto they have adopted : *Floreat Kew*. I would have suggested a shovel proper on a field azure, with the motto *Digitii Virides*. (If I have any Latin left, that ought to mean GREEN FINGERS.)”

(The Motto *Floreat Kew* was adopted at the Guild's formation in 1892. Doubtless it was approved of, and possibly coined by Sir William T. Thiselton-Dyer who took a great interest in the Guild and was an accomplished Latin scholar.)

KEWITES ABROAD.

Mr. and Mrs. J. D. Low (1961) sailed for New Zealand on 3rd March, 1964, on the "Southern Cross", via the Panama Canal. Mr. Low took up an appointment with the Napier City Parks Department.

We apologise for the confusion in the address list last year.

In a recent letter Mr. T. W. Whitehill (1962) mentions that he has been on a week's plant collecting expedition in the Lake Forrens and Lake Frome district about 400 miles north of Adelaide.

Mr. Kan Yashiroda (1926) spent a period of two months at Brooklyn Botanic Garden, New York, on their invitation, to attend the course of "Bonsai".

Mr. Fairman R. Jayne (1961) is now Horticulturist and Propagator at the Arthur Hoyte Scott Horticulturist Foundation, Swarthmore, Penn., U.S.A.

In a recent letter, Mr. Binter (1917) stated that both he and his wife (Miss Kitty Harper—1918) were happy and well in their new home at Boulogne. In addition to his official duties he is carrying out his own research into Hibernation and Vernalisation.

Mr. and Mrs. P. Darbyshire (1960) visited the Herbarium on 1st December, 1964. Mr. Darbyshire was a Scientific Assistant to Mr. J. R. Sealy. He has resigned his appointment with the C.S.I.R.O. in Australia. In addition to travelling and working in various parts of the Commonwealth he collected plants with Dr. Hoogland in New Guinea (*K.G.J.*, 1960, Vol. VII, No. LXV, p. 800 and 1961, Vol. VIII, No. LXVI, p. 54).

Mr. W. C. Everitt (1928) has retired from the post of Curator of the Municipal Gardens, Queenstown. Now, enjoying a subtropical climate, he is only a few minutes run by car to one of the finest coast-lines in South Africa. He described the suburban gardens in the East London district as being ablaze with the scarlet and pink Poinsettias. The semi-climber of deep blue—*Petrea volubilis*, is in striking contrast. The "suburbantes" also have their fruits such as—Paw-Paws, Avocado Pears and the inevitable Bananas. Pineapples are grown extensively near East London and there is a well organised Research Station for this crop.

In a recent letter Mr. G. K. A. Amoah (1957) wrote: "I simply cannot express the importance I attach to the *Journal*". Later in the letter he wrote: "I can assure you that I am playing my part in the small way I can to advertise Kew and her place in Horticulture in Ghana. I have recently completed a Guide Book on Alhuri Botanic Gardens, Ghana . . .". Thank you, Mr. Amoah.

Mr. C. I. McDowell (1960) has the post of Head Gardener to the New Plymouth City Parks Department. He left the Grotto in 1961 having obtained a pass with distinction. He worked for a short while with Ealing Borough Council and then for a year in

Liverpool Parks Department as a first class certificated gardener. He left for his present position in April, 1943. In a recent letter he writes: "I am enjoying my work here very much and have found many new plants of interest both indigenous and introduced. The climate here is suitable for many of the sun lovers from South Africa and Australia. The flora of Mt. Egmont (8,000 ft.), a volcanic mountain behind the town is very interesting. So are the plantings of the Pukeiti Rhododendron Trust, founded in 1951 and now over 400 acres in extent.

"The town of New Plymouth has many reserves and street trees selected for the coastal position. Also there are the twin parks of Pukura and Brooklands."

Mr. A. T. Wood (1960) of Uganda wrote in recently (12th December, 1964): "I have now moved to an estate with a large nursery, 32 acres for seed and a rapidly expanding 2 acres is growing only tea. This is in addition to 400 acres of mature tea in plucking, for which there is a separate labour force of just over 300. I also have about 160 acres of Eucalyptus grown for fuel, these are of all ages to provide a continuous supply to the tea factory. They take 6-7 years from seed to maturity, when they will be up to 125 ft. high.

As to day-to-day work, the nature is mainly routine work of plucking (60% of labour), hoeing pruning, chemical weed control, and roads and housing maintenance with seasonal work of clearing forest for fuel and tea plantings. This accounts for about half of my time in checking these jobs and allocating work. I also have to keep office records of all operations, cost and yields. The vegetative nursery is still in its infancy and much of the work is of selection of new clones, proving their qualities of rooting habit, etc. So far we have 18 clones selected for further trials."

In January, 1963, Mr. (1962) and Mrs. C. Giles journeyed to Malaysia where he took the post of Assistant Manager on Sapong Estate. In a recent letter (20th December, 1964): "Many thanks for your letter and here's some 'gen' on 'Giles' for you. Shane Vivian Hayward Giles, born 25th January, 1961, was the first child to be born to a Kew student whilst he was studying at Kew. Now an enthusiastic orchid collector who thinks nothing of an all-day trip to the jungle. Other flowers he finds equally interesting and is always bringing back plants from his walks—'for Kew Daddy'.

"Ian Samuel Hayward Giles, born 17th December, 1962, travelled to British North Borneo when he was five weeks old, leaving the worst English winter for goodness knows how many years, for the heat and humidity of Sabah, and the change, made in 24 hours, bothered him not at all.

"Fiona June Hayward Giles, born 23rd August, 1964, in Sabah, another little foreigner like Daddy. A lovely little girl who is already quite an adornment in our household.

"I have not just completed my first two years as Assistant Manager on one of the largest Rubber Plantations in Sabah. We have many different tribes working on the estate, but on the whole they are extremely friendly folk once they have overcome their initial shyness at our white skins. Ian is a real blondie and the subject of much touching, just to make sure its really real hair. He was the first white baby most of the staff and their families had seen."

NEWS OF KEW AND KEWITES

The Director, Sir George Taylor, flew to the U.S.S.R. in late June to visit botanical establishments in Moscow, Leningrad, Tbilisi (Tiflis) and Sukhumi. He also discussed the question of botanical expeditions to remote parts of the U.S.S.R. The visit was suggested by the Foreign Office and was sponsored by the British Council. In July he attended the General Assembly of the International Union of Biological Sciences in Prague.

In early October, Sir George visited Puerto Rico and then the Arnold Arboretum (Cambridge), the U.S. National Arboretum (Washington), the Morton Arboretum (Chicago), the site of the new Botanic Garden at Chicago, the Longwood Gardens and other Gardens in the U.S.A.

As President of the Botanical Division, The Director attended the meeting of the Executive Committee of the International Union of Biological Sciences at Stockholm on 2nd and 3rd November.

Mr. A. D. Schilling has taken the post of Adviser under the Colombo Plan to the Royal Botanic Garden, Katmandhu, Nepal. He has been seconded for two years to the Ministry of Overseas Development. He flew out in the early part of February.

All members of the Guild will wish our former Treasurer and his wife every success. They will also wish to thank him very much for the work he has done for the Guild. Mr. Schilling was elected as Treasurer at the A.G.M., 1961.

Mr. and Mrs. Michael Evans left the Herbarium Staff on 31st December, 1964. Mr. Evans is joining the staff of the National Academy of Sciences (I.S.A.) (Flora of Micronesia Study) and, accompanied by Mrs. Evans, intended to spend three months in Washington, D.C., before moving to the island of Guam in the Marianne Islands.

Wakehurst Place, Sussex. Under an arrangement between the Ministry of Agriculture, Fisheries and Food and the National Trust, Kew has taken a long lease (from 2nd January, 1965) of the extensive gardens (120 acres) and woodlands (400 acres) of Wakehurst Place which were bequeathed to the National Trust by the late Sir Henry Price. The Royal Botanic Gardens will administer the gardens and woodlands with the advice of an advisory committee

on which the National Trust will be represented. This arrangement will give Kew the opportunity to increase its living collection in a satellite garden situated in an area of great beauty and in soil and atmospheric conditions much more favourable than at Kew. The gardens contain many plants of outstanding botanical interest. Wakehurst Place was previously the home of the late Lord Wakehurst (Gerald Loder) who planted numerous rare trees and shrubs.

An illustrated account of the Bearded Iris at Kew by Mr. G. H. Preston (Assistant Curator) appeared in the *R.H.S. Journal*, p. 302, July, 1964 (Vol. LXXXIX, Part Seven).

In the R.H.S. Annual Report for 1963 it was announced that "Council has agreed that the Society should assist in the preparation and publishing of a new and revised edition of the valuable work, W. J. Bean's *Trees and Shrubs Hardy in the British Isles*, and work on it will shortly begin in conjunction with the Royal Botanic Gardens, Kew, and Messrs. John Murray.

Marianne North—An illustrated account of the Life and Work of Marianne North by Alvilde Lee-Milne appeared in the *R.H.S. Journal*, p. 231, June, 1964 (Vol. LXXXIX, Part Six).

This great artist is also featured in the book by Dorothy Middleton, *Victorian Lady Travellers* (Routledge and Kegan Paul, 1965. Chapter 2, pp. 54-71).

"VISTA"—The Student Gardeners' Association Magazine which is published every six months, came out in September. It is smaller than the previous edition due to rising production costs.

It contained reviews and amusing articles, quizzes, puzzles and a crossword.

Mr. J. B. Simmons, Foreman Gardener in the Tropical Pits for three years was promoted Assistant Curator at Kew and took charge of the Temperate House Department on 1st January, 1965. Mr. Simmons entered Kew as an Improver in 1958 and was a student at Kew, 1959-61.

Mr. J. E. S. Souster, who was Assistant Curator in the Temperate House Department up to 31st December, 1964, has left Kew and is now Gardener at The Old Vicarage, Moulsoford, Wallingford, Berks.

Dr. Keith Jones spent the period February 3rd to June 1st in the U.S.A. as a short-term Fellow of the Kellogg Foundation. The greater part of this period was spent at the department of Botany of the University of California at Los Angeles from where visits were made to other botanical departments and institutions in southern California, including the Rancho Santa Ana Botanic Garden. Later, in the San Francisco area, visits were made to the Universities at Davis, Berkeley and Stanford. On the return eastwards across the States some time was spent at the University of Colorado, at St. Louis, at the University of Chicago, at the New York Botanic Garden and at the Bailey Hortorium of Cornell University.

Mr. W. D. Clayton (Herb. Staff) left for Brazil in December to attend the 11th International Grassland Congress at São Paulo.

Mr. N. Y. Sandwith (Herb. Staff) also journeyed to São Paulo in December where he represented the Director at a meeting sponsored by UNESCO to discuss the proposed "Flora Neotropica".

Miss I. Blewett was promoted to the acting rank of Senior Scientific Assistant on 1st January, 1964.

Miss V. A. Carder was promoted to the rank of Scientific Assistant on 23rd December, 1964.

Together these two ladies work in the Cultivated Plants Section of the Herbarium. Mr. M. J. S. Sands is also in this section as Assistant Experimental Officer. Head of this section is Mr. J. R. Sealy.

Mr. J. B. Gillet resigned on 30th June, 1964, from his appointment at Kew as Principal Scientific Officer on the Staff of the Department of Technical Co-operation, and started work as Botanist in Charge of the East African Herbarium, Nairobi, on 6th August, 1964. He hopes to remain in Kenya for 2-8 years and then to return to England (Herb. News).

Miss D. M. Catling (Jodrell Lab. Staff) has been promoted to the acting rank of Senior Scientific Assistant from 1st January, 1964.

Dr. M. Y. Stant has been promoted to the rank of Senior Scientific Officer in the Jodrell Laboratory with effect from 1st January, 1964.

Mr. P. G. Taylor has been promoted to the acting rank of Senior Experimental Officer, with effect from 1st January, 1964.

Mr. R. Wing was promoted to Chief Executive Officer from 19th October, 1964.

Dr. Peter A. Thompson was appointed Plant Physiologist in the Jodrell Laboratory with the rank of Principal Scientific Officer with effect from 1st December, 1964. He was previously working on strawberries at the Scottish Horticultural Research Institute, Dundee, and is a graduate of Wye College, London University.

BACK NUMBERS OF "KEW GUILD JOURNAL"

These are available at the following rates:—

1893—1950	...	...	2/6 each
1951—1961	...	...	7/6 each
1963	...	...	7/6 each

(1962 copies at present sold out)

Enquiries should be made to—

Mr. S. W. Rawlings, Kew Guild Records Officer

VISITORS TO KEW

Land Commissioners, M.A.F.F. Fifteen Land Commissioners of the Agricultural Land Service, M.A.F.F., led by Major E. S. Dobb, Director, spent 22nd April at Kew, when they visited various departments of the Gardens, including the Herbarium and Library.

Royal Institute of Public Administration. Forty-six members of the London Group visited Kew on the afternoon of 23rd May, when the Director gave them a talk in the Keeper's Room at the Herbarium on the history and organization of the Royal Botanic Gardens, Kew. Later they toured the Living Collections.

Dutch Association of Nurserymen. Some twenty members visited the Gardens on the morning of 1st July, when they were conducted round by the Curatorial Staff.

War Graves Commission. Twenty-three officers of this department visited Kew on 28th May and were conducted round the Living Collections and the Herbarium.

Mrs. Roberts (née Nora Watson) and her husband visited England during the summer of 1964, and attended the Annual Tea Party. Mrs. Roberts was the daughter of the late William Watson, Curator at Kew 1901-1922.

Professor H. B. Rycroft, Director of the National Botanical Gardens, Kirstenbosch, Cape Town, spent a few days at Kew in August, 1964.

Netherlands Horticultural Officers. A party of five horticultural officers, led by Mr. J. C. Haker, visited the Gardens on Friday, 25th September, at the end of week's tour of horticultural and other stations in Scotland and England. (Herb. News).

Russian Botanists. A party of 18 botanists from various parts of the Soviet Union visited the Gardens on Saturday morning, 1st August, before proceeding to the Edinburgh Congress. They spent some time in the Herbarium, before going to the Gardens and Museums, and were very impressed with everything they saw. The party included Dr. A. Fedorov, Dr. L. E. Rodin and Professor B. A. Tikhomisov from the Komarov Botanical Institute, Leningrad. (Herb. News).

Overseas Botanists working at Kew. During the three weeks ending 7th August botanists from 30 different countries worked in the Herbarium, comprising Argentina, Australia, Austria, Canada, Chile, Czechoslovakia, Denmark, Finland, Germany, Ghana, Holland, India, Israel, Italy, Jamaica, Japan, Malaya, New Zealand, Nigeria, Peru, Poland, Portugal, South Africa, Southern Rhodesia, Switzerland, Taiwan, United States, U.S.S.R. and Thailand. (Herb. News).

* * *

Kew Parish Church celebrated its 250th Anniversary by a series of services from May 10th to June 14th, 1964. Included were productions of the well known and delightful Chester Miracle Play. "Noyes Fludde", set to music by Benjamin Britten. Many local children took part.

LUDVIK DURCHANEK (1927)

Some time ago we received notification of an interesting article entitled "The Stab of Truth", which had appeared in *Time Magazine*, 7th December, 1962, a weekly news magazine which is published in New York. It featured Ludvik Durchanek, an Old Kewite of 1927 vintage who is now a sculptor of renown.

We can do no better than to quote this article at full length :—

"*The Stab of Truth*—Two men of hammered bronze stand talking to each other, their arms poised in a way so questioning that one can almost hear this dialogue 'Where do we go from here?' 'How the devil should I know?' In another part of the room a marvellously attenuated adolescent boy clutches a four-leaf clover and gazes imploringly at the ceiling; he is called *The Wish*. The pieces are both funny and sad, a bit crude and yet full of vitality. On view at Manhattan's Graham Gallery, they are the work of the Czech-born sculptor Ludvik Durchanek, a rough hewn talent of considerable versatility and force.

"In his 60 years Durchanek has been a maker of frames, a therapist in a mental hospital, and a landscape gardener. From the hospital he learned the dark side of life, which finds expression in sculptures of bitterness and anger, of delicate poignancy, and occasionally acid satire. From gardening he got a feeling of form. Originally he had studied to be a painter, but colour did not particularly interest him, and he found that however he painted a canvas, the canvas remained for him two-dimensional. 'Painting wasn't tangible enough for me' he says, 'I have to have something, like a child, that I can feel'.

"When he first turned to sculpture he worked in wood; it was not until he was past 50 that he found the materials that he now prefers—sheets of copper, bronze or silver, which he bends, hammers and brazes to enclose his forms. His skill is impressive, but even more so is the splendid chaos of his ideas, a mixture of corn and stabbing truth that often is close to surrealism.

"The most ferocious piece in the show is a star-shaped sculpture of two winged demons riding a couple of monsters, one resembling a mad dog, the other a lunatic pig. It was inspired by a photo of a band of Southern harridans hissing and screaming epithets at Negro children entering a nearby integrated school. The women were grouped in such a way as to suggest the positioning of the monsters' heads. The emotion of the same was transformed into an explosion of the claws and hoofs, of talon shaped fingers and screeching beaks. It is a birth of total hate. Durchanek calls it *Mardi Gras*."

We wrote Mr. Durchanek and his reply, dated 20th November, 1964, included the following :—

"In your letter you posed a question which has affected my life since 1925. It was a decisive point—Kew. First of all, had I not been accepted there as a student I most likely would not have been able to leave the European Mainland, with the almost



LUDVIK DURCHANEK WITH "MARDI GRAS"

inevitable return to Prague, and possible extinction in the turmoil of 1938-45. You see I am a Czech. Now, in retrospect, Kew Gardens was a romance to me as if it had been the last outpost of good horticulture, which though I feel I had deserted it, still remains one of my loves, meaning: Horticulture as an art. As such, Kew has shown me the ideal, completely unattached, never to be encountered again. Disappointed almost everywhere, I gradually withdrew from professional gardening and turned to my present art efforts.

"It is a little more difficult to state how Kew has contributed to these. Perhaps being permitted to observe plant life so closely, botanically, it resulted in a habit to do likewise in everything, with the same detachment. Hence all of Life. It is all one. In this sense Kew has enriched me beyond measure. Incidentally *Mardi Gras* is patterned on a many petalled flower. Perhaps there is the best answer."

(We thank the Editor of *Time*, the weekly magazine, for permission to quote from this publication and for allowing us to reproduce the photograph.) _____

BLAZER BADGES

These are now available, priced 53s. 6d., inc. postage (payable in advance), from the Hon. Treasurer

KEW GUILD TIE

These are now available, manufactured in terylene, and are priced at 16 shillings, including postage (payable in advance)

Please send remittances to the Hon. Treasurer
All cheques, P.O.'s, etc., should be made payable to THE KEW GUILD

EDUCATIONAL SECTION

THE YOUNG GARDENERS AT KEW

One of the recognised functions of the Gardens is the training of gardeners. For over two centuries young gardeners have been coming to Kew for the last two years or so of their training, and going from Kew to take responsible positions elsewhere. During that time a system of formal training was gradually evolved, as will be seen from the following account from a MS history of the Gardens written by John Smith (1798-1888) who worked at Kew for forty-four years, from 1821 to 1864. From 1826 to 1841 he was foreman under William Townsend Aiton (1766-1849), who had succeeded his father, William Aiton (1731-1793), in 1793 as "Gardener to His Majesty" and who by 1826 was Superintendent not only of the Royal Gardens at Kew but also of various other royal gardens as well. When Kew was taken over by the Government in 1841 and Sir William Hooker became Director, John Smith was appointed Curator, a position he held for twenty-three years until his retirement in 1864. After he retired he wrote the History of the Gardens referred to above, which was never published and of which the MS is in the Herbarium Library. His account of the young gardeners at Kew is as follows:—

"In Scotland, as well as many gardens in England, regular systems of apprenticeship are served, generally of not less than three years, on the expiration of which the young gardener seeks instruction in other gardens; some make application for admission to the Royal Gardens, Kew. Of these there are two classes, some only wishing to be employed for a short time, in order to obtain a certificate stating that they have served in the Royal Gardens, this class is the most numerous, and in general have no taste for the study of plants, some however turn out to be good cultivators. The other class is however very different, many of them possess a natural taste for the study of plants, being acquainted with the botanical names of many before coming to Kew, and in time some of them become foremen, collectors, curators or superintendents of public gardens, either home or colonial. During the last fifty years these situations have been held chiefly by Scotsmen, as shown by an article in the *Gardener's Chronicle* of August 31st, 1872, in which the names of fifty-nine are recorded.

"During the time the maintenance of the Botanic Garden was defrayed by the privy purse under the control of the Lord Steward of the Royal household, there was no special means in use for teaching the young gardeners. Books were beyond their reach, their wages being only 12/- a week, their knowledge was therefore derived from direct observation and study, and on account of many of the plants not being named they had to depend on the foreman for all information respecting them. This was probably the best way, as the special character of the plants had to be carefully noted and kept in mind, which was truly the case, as I

have satisfactorily proved that plants with their names attached and seen every day, could not be told when the labels were removed.

“As for elementary books on gardening and botany they had none; I on first coming to Kew was considered wonderful on account of possessing three books, viz. Mawe's *Gardener's Calender*, Lee's *Introduction to Botany*” and Smith's *Compendium Florae Britannicae*”, therefore in those days, essays written on horticulture by old or young were founded on direct practical experience and observation.

“The number of young gardeners then employed seldom exceeded ten or twelve most of whom had a hothouse or greenhouse under their charge which they had to keep in good order, they had also to assist in the outdoor work of the Garden, and to attend to the furnaces in weekly rotation. The man for the week was called the fireman and was provided with a dress which was common to all, tall and short. It was their duty to arrange and regulate the fires, so as to maintain the proper temperature in the houses, and to attend on Sundays in weekly rotation. In severe weather when the whole of the furnaces were required, of which there were more than 30, and being wide apart it was no easy task and sometimes they had to remain on duty till two or three o'clock in the morning, with this kind of work. Although the wages were only 12/- a week, there were no complaints, it being considered then an essential part of the education of a gardener to know how to stoke hothouse fires so as to maintain a proper temperature. But with all these drawbacks, Kew in early days produced a number of clever gardeners, some filling the highest situation a gardener can attain. On entering the service it was the general rule to spend a year or two in the Kitchen (or forcing) Garden at Kew, or some other of the Royal Gardens, and finishing by an equal length of service in the Botanic Garden, on the termination of which, they were recommended according to their competency, and general good conduct, to noblemen and gentlemen as head gardeners, for which Mr. Aiton had many applications and which was a great inducement for young gardeners to enter the service of the Royal Gardens.

“On the appointment of Sir W. Hooker in 1841 a library was commenced for the use of the young gardeners. In 1846, the Earl of Carlisle, then first Commissioner of Woods and Forests, presented a sum of money (£10) for the purchase of books and since then a sum of £20 has yearly been voted on the Garden estimate for the same purpose. At first the books were placed in an old office in the Garden, and rules were drawn up for the readers. In 1848, on my original house in the Garden becoming vacant, the kitchen part was turned into the Director's room as it now is, and two foremen occupied the lower room, to one of which the books from the old office were transferred. Of this Sir W. Hooker in his parliamentary report for 1859 says: ‘It consists of two small apartments adjoining the Director's Office, and contains a collection of the more useful works on Horticulture,

Elementary Botany, Geography and Physics, Agricultural Chemistry, Landscape Gardening, and a few volumes of voyages and travels together with two Horticultural weekly journals, some maps, and a small supply of stationery for the use of readers. It is open every evening for the gardeners, under the direction of the Curator and Foremen, who are responsible by turns, for the safety of the books and good conduct of the men. The men on entering the reading room, inscribe their names in a book kept for that purpose; and when their period of retirement from the service of the Gardens arises, the amount of attendance at the library is considered in drawing up their testimonials.

“From time to time improvements were made in order to facilitate the study of the young gardeners and in order to enable them to practically study the plants, half an hour was allowed them after breakfast to inspect the collections in the different hot-houses and open air. Arrangements were made for writing and reading essays on different branches of Horticulture. A schedule of questions was also drawn up in order to test the degree of efficiency in the knowledge of plants; simple as these questions were, but few presented themselves for examination. In 1850 I tried a direct practical test by offering as a prize a copy of Hooker's *British Flora* for the best collection of dried British plants collected in the neighbourhood or a reasonable distance from Kew during leisure time. Four collections were put in for competition, all of which were very creditable, the prize being awarded to Charles Barter the afterwards indefatigable but unfortunate African collector. It was however found that the benefit of the library depended on the nature of the men and the amount of their previous education; the attendance of many being merely for the purpose of registering their names, that the number of registries may assist in their obtaining a favourable certificate on leaving the Gardens.

“In 1863 a new reading room was erected regarding which Sir W. Hooker in his report for 1864 says: ‘A commodious reading room for the foremen and gardeners, with dwelling rooms for two of the two former, have been erected adjoining the Director's Office. To this the men's library has been removed, and in it Professor Oliver delivers lectures to the foremen, gardeners, etc., throughout the winter months. The attendance at the library and lectures has been in every way satisfactory and productive of excellent results’.

“After 1865 lectures were also delivered by Mr. Baker, Assistant Keeper of the Herbarium, to the men during the summer in the morning, which, as well as those of Professor Oliver, were gratuitous, but in 1874 a sum of £100 was voted on the estimates for delivering lectures on a more extensive scale. This sum is divided between five lecturers each receiving £20. The nature of the lectures are described by Dr. Hooker in his report for 1874, as follows; ‘During the past year practical lessons in various departments of Botany, and its kindred subjects, have been given to the

young gardeners with a view of preparing them better for their duties in general, and especially qualifying them for Government and other situations, in the Colonies and India, where a scientific knowledge of gardening, arboriculture, etc., is required. The lessons are given in the evening after working hours, and embrace the elements of structural, systematic and physiological botany, of chemistry, physical geography, and meteorology in their application to horticulture, of economic botany, forestry, etc. They are given some in the young men's library, others in the garden or museum. Attendance is not compulsory, but anyone commencing one of the courses is required to go through with it, and take notes which are written out in books, and these are examined periodically. The courses are short and some of them are repeated twice or oftener during the year so as to enable a succession of young gardeners (who cannot well attend to more than one course at a time) to obtain instruction in all or most of the subjects taught.

'It should be premised that no young gardeners are taken into the service of the Royal Gardens who have not passed their apprenticeship elsewhere; that they come ostensibly for the purpose of self-improvement and are expected to remain for two years in the service. They however seldom remain more than 12 to 18 months, the fact of having served at Kew being considered so high a recommendation for curatorships of Botanic and other public gardens, and by persons requiring gardeners with a special knowledge of plants, and the demands upon Kew for gardeners to serve in India and the Colonies being very frequent.

'Though the attendance has been voluntary, it has been remarkably good, three-fourths of the young gardeners availing themselves of the lessons, and the results have been extremely satisfactory both in respect of the encouragement to self-improvement amongst the gardeners and of the increased confidence with which the authorities of the establishment can recommend them for employment elsewhere. It may be mentioned here that, as has been the case with evening attendance in the library, the fact of good attendance on the lessons is recorded in every gardener's certificate of conduct and proficiency, on his leaving the service of this establishment.

'Numerous applications for admission to the lessons have been received from persons inhabiting the neighbourhood, which, in all cases have been refused. It is obvious that the amount of benefit to be obtained from such lessons given to young men who came to Kew, and who are for the most part profoundly ignorant of the subjects taught, depends mainly on the individual attention which each receives from the instructor, and that the presence of strangers would impede that free intercourse which should subsist between the teachers and their pupils, amongst whom not a few are unaccustomed to that severe training in the exercise of the hands, eyes, and reasoning powers that is required to master in a few lessons a sound knowledge of the principles upon which the science and practice of Botany and Horticulture are based.'"

J. R. SEALY, *Hon. Secretary, Kew Guild.*

LIVE PLANTS IN THE MUSEUM, 1964.

During the winter months the Plant Table was used for an exhibit on the seed dispersal mechanism of a number of British and alien trees. Fruit-bearing branches were arranged up the back and sides of the case with fruits and seeds on the base.

As usual, the Table was used for its main purpose—showing British wild plants—between April and October. About 500 species were exhibited, in spite of the fact that the drought caused supplies to stop rather earlier than usual. Again great help with naming was given by the staff of the European department of the Herbarium and the thanks of the Museum staff are due to them, as well as to other members of the staff and students for their help in providing material. We are also very grateful to those members of the public who regularly sent contributions to the Plant Table; it is their material which provides the backbone of the display. These remarks also apply to the “Moss Box” which was in continual use this year.

During the earlier part of the summer there was a small exhibit of some of the flowers mentioned by Shakespeare, with appropriate quotations. This was apparently especially appreciated by visitors from overseas.

Between October and Christmas there was a display of gymnosperm material, much of it from Bedgebury. This was succeeded by one showing how evergreen and deciduous trees adapt themselves to winter conditions.

At Christmas an island was constructed in the front hall of the Museum. On it were shown the plants or plant products which the family in “A Swiss Family Robinson” found whilst exploring the island that they were shipwrecked on. While most of the material came from the Museum collections, some of the appropriate plants were added to give life to the display.

ROSEMARY ANGEL.

THE ANNUAL GENERAL MEETING AND TEA

will be held on

Saturday, 28th August, 1965

At KEW (entrance at Melon Yard Gate)

MEETING to commence at approximately 2.45 p.m.

TEA at approximately 4.15 p.m.

Notification will be made by post well before the event

THE KEW GUILD ANNUAL DINNER

will be held on

Wednesday, 26th May, 1965

at

THE CHATHAM RESTAURANT, Victoria Station, London, S.W.1
6.15 p.m. for 7 p.m.

Dress Optional

Tickets 30/- each from the Hon. Treasurer.

THE NEW JODRELL LABORATORY.

Monday, 14th December, 1964, was a red letter day in the history of Kew, for this was the date when the staff of the Jodrell Laboratory moved into our new building. It occupies the same spot in the Melon Yard where the old laboratory previously stood, but, being much larger it covers a greater area. It is hoped that a more complete account of the building and of the work that is to be undertaken in it will be published in the *Journal* of the Kew Guild after the laboratory has been officially opened by the President of the Royal Society, Sir Howard Florey, on 7th May, 1965. It is, however, a safe prediction that the occupation of the building marks the beginning of a new epoch in the history of laboratory work at Kew. It also heralds the advent of a fresh outlook on and a new approach to the training of student gardeners.

At such a moment it seems appropriate to remind ourselves of how and why the old laboratory came into existence. Briefly the circumstances were these. In 1876, when the old laboratory was opened, the study of systematic botany was already a well established branch of plant science in the more advanced countries of the world. The botanical exploration of the countries which then constituted the British Empire, usually shown in red in the atlases of the day, had already provided and was still serving as a great stimulus to the study of plant classification in Great Britain. Kew had already witnessed, first the initiation of the Museums of Economic Botany and then of the Herbarium. But in all of this there was a great lacuna, for the study of the structure and physiology of plants in this country had lagged far behind the researches on these topics which had been in progress for some time in continental Europe, particularly in Germany and France. British botanists in those days were no match for their continental colleagues in the matter of knowing how plants are constructed or in understanding the physiological process of which their very existence consists. Enterprising young botanists such as F. O. Bower and D. H. Scott, seeing the danger in this lack of perspective in botanical knowledge, went to study under the eminent continental authorities Julius von Sachs of Würzburg and Anton de Bary of Strassburg. Returning to England these young men were frustrated by the lack of facilities for following up the researches which they had undertaken and for developing the techniques they had learned on the Continent. It required the genius of that great man, Sir Joseph Hooker, to see that investigations undertaken in laboratories and herbaria respectively are complementary to one another, and that neither approach is, in itself, all sufficient for the full and harmonious development of botany. Sir Joseph therefore laid his plans and persuaded his personal friend Mr. T. J. Phillips Jodrell to provide sufficient funds from his own resources to enable the laboratory, which was named after him, to be built at Kew.

Eighty-eight years have elapsed since the old, and by modern standards very modest, Jodrell Laboratory was opened. The site

on which it stood was carefully chosen by Sir Joseph Hooker, for he fully realized that the nature of the work to be undertaken would involve close collaboration not only with the Herbarium but also with the Curator's department, whilst easy access to reference material in the Museums of Economic Botany would also be needed. At the same time there is always a risk of fire in a botanical laboratory, especially when plant physiology is part of the programme, and for this reason it was thought to be undesirable for the laboratory to be too close to other buildings.

It was at about this same time that the first formal lectures were given to student gardeners, and for a brief period the lectures are said to have been given in the Jodrell Laboratory itself. Owing to lack of space, however, the student instruction was soon transferred to an adjacent iron shed, previously used as a workshop, which in the course of time became known as the "Iron Room" and will be remembered with mixed feelings of affection and horror by the many generations of students who attended lectures and were given laboratory instruction in it.

The laboratory cost £1,000 to build and £500 to equip. So much has the value of money changed since then that we now have to pay more for a really high grade research microscope than the total cost of the old laboratory itself. Nevertheless the old Jodrell Laboratory is said to have been as well equipped as any in Europe when it was first opened. Such was the social and scientific climate of the times that Mr. Jodrell made his benefaction to Kew in the expectation that there would be no need to pay a salary to anybody who worked at the Jodrell Laboratory. Treasury officials were horrified at the suggestion of appointing a Keeper even in an honorary capacity, let alone one who might receive a salary. They reluctantly agreed, however, to Dr. D. H. Scott, who we have already seen had studied botany in Germany, becoming Honorary Keeper, but they stipulated not only that the post should remain "honorary" but that it should cease to exist if and when Dr. Scott should vacate it. Dr. Scott voluntarily gave up a salaried post at the then high salary of £500 per annum at London University when he assumed the honorary keepership in 1892. When he vacated the post in 1906 he was a Fellow of the Royal Society, and he and his associates had earned such a good name for their work that the Jodrell Laboratory enjoyed a high reputation throughout the botanical world. Nevertheless, in 1906, the authorities at Kew were confronted by the fact that Dr. Scott's post was to cease to exist, as stipulated by the Treasury. They therefore had a laboratory on their hands and nobody to run it. This difficulty was overcome by the simple expedient of appointing L. A. Boodle, who succeeded Scott, to be Assistant Keeper, and he retained this title, although he was in fact Keeper, from 1906 until he retired in 1930. I succeeded Boodle as Assistant Keeper and the title of the post remained unchanged until 1946 when the style Keeper was reintroduced almost without being noticed.

Modest as these beginnings were, there can be no question that Sir Joseph Hooker's vision had already been more than justified even by the time that Dr. Scott left Kew. It is perhaps a matter for wonder that, in the circumstances just related, the Jodrell Laboratory so quickly attained a high reputation as a research centre. The fact that it did so is due to the exceptionally high calibre of many of the botanists who worked there in its early days. They were devoted men who gave of their best with little or no thought of personal reward. I have myself been told by F. O. Bower, who was himself an eye-witness of what took place, that they worked for very long hours, and to them such modern concepts as a five-day week would have seemed very strange. It may also seem remarkable to us to-day that so many generations of student gardeners have gained positions of distinction in the horticultural world when so much of their theoretical training was given in the forbidding atmosphere of the "Iron Room". This all goes to show how much can be achieved where enthusiasm, hard work, sound teaching and a real love for plants are allowed to flourish. But nowadays we live in circumstances that have changed so much that it would not be possible for either students or research workers to meet the demands of the present age without more space, better lighting and better and more modern equipment than have previously been available. A laboratory that fails to adapt itself to changes of circumstance is just as likely to perish as a living organism that is out of balance with its environment. We must move with the times or, like the Dodo, we shall become extinct.

Both research workers and students will be confronted with a great challenge in our new building. This consists essentially in fusing all that is best in the high traditions for hard work and devotion to duty that we inherit from our predecessors with new outlooks and new approaches to our problems that are constantly being presented to us in a world that is rapidly changing. We must not be led astray by all that dazzles. It will be up to us to try out new ideas and new equipment as often as we can, for it is only by innovation that progress can be made. But equally we shall be wise not to discard what is well proven in favour of that which is new until we are sure of our ground. Our tools and equipment must be of the best, but in selecting them we must beware of deception by modern advertising and avoid using gadgets that are in the nature of status symbols rather than implements that will lead us to do our work more effectively. I personally believe that the future holds great prospects in store for all of us who are privileged to work in our new building, but it will require great tenacity of purpose and patience in overcoming our difficulties if we are to make the best use of our new heritage.

C. R. METCALFE,

Keeper of the Jodrell Laboratory.

THE NEW UNIVERSITY OF ESSEX

The University of Essex is situated on the boundary of Colchester. The site comprises some 204 acres of typical old English park land, and a valley runs through the site. It is in the lower part of this valley that the new University is being built; higher up the valley are three lakes. Overlooking the two higher lakes is Wivenhoe House with its outbuildings. Though from the outside it looks quite the normal gentleman's country residence, on the inside it has been transformed into offices, laboratories, dining rooms, kitchens, common rooms, and all the other vital amenities which are essential to allow the first 120 students to study.

The first of the permanent buildings will be ready in 1965 when the majority of the temporary research facilities will be moved to permanent quarters, and Wivenhoe House will be used for other purposes.

As you can well imagine the task facing the grounds staff is formidable but nevertheless, exciting. We have already created temporary hockey, football, and cricket pitches in a part of the 45 acres set aside for playing fields. The development of this area will have to be undertaken in two parts to allow play to continue uninterrupted. I hope this development will be completed by 1968.

We have cleared large areas of undergrowth, and found many fine trees, nearly all of which I must add require attention from our forester. We hope to preserve as many as possible of the fine specimens—*Quercus rober* being predominant, with fine examples of *Q. suber*, *Sequoia sempervirens*, *Cedrus deodara*, and *Eucalyptus gunnii*, etc.

As mentioned earlier there are three lakes, two existed before the University took over, and the third lake having just been completed. The two existing lakes were dredged this summer by the system of employing two traction engines, one on either side of the valley, between them ran a steel cable to which a large bucket was attached, the bucket was dragged in and out of the lakes and the deep black ooze deposited on the hillside. We hope to be able to level and re-seed the silt next spring.

The first major landscape development should take place in 1965, when we take over the first part of the new University buildings, and the Vice-Chancellor's house which is being built between the two lakes which were dredged.

Though the buildings will not be completed for many years we hope to be able to report a considerable improvement in the site horticulturally in a few years' time.

C. POPHAM (1964).

Mr. Clive Popham is in charge of the University's grounds and is thus setting the pace for the rapidly developing horticultural and playing field developments.

FIRE BLIGHT AT KEW IN 1964.

Fire blight is caused by the bacterium *Erwinia amylovora* (Burrill) Winslow et al and only attacks actively growing plants. Infection is normally through the blossoms and spreads from those rapidly into the branches. Diseased flower trusses turn black and in the infected branches there is necrosis of the superficial cortical cells. As the branches die back the leaves turn dark brown, or, in pear turn black, as though scorched by fire. The cankers continue to extend until late in the season and may even reach the main trunk of a tree. In some of these cankers the organism survives the winter and it comes to the surface in droplets of ooze at about the time the first blossoms open in spring. It appears that primary spread from these droplets on dead branches to the blossom is mainly by rain splashing but once blossom infection has started it is spread rapidly from tree to tree by insects visiting the blossom, including honey bees. Though the bulk of infection occurs through blossom trusses some shoots can be infected later in the season through fruit and leaves.

The Fire blight organism is native to North America, where it was the first bacterial plant pathogen to be recognised, and until recently it was known elsewhere only in New Zealand, where it first appeared in 1919. Other much less destructive bacterial blossom blights, notably those caused by *Pseudomonas barkeri* (Berridge) Clara and *P. prunicola* Wormald were native to England but these did not cause extensive cankers or scorching of foliage and were of little economic importance.

The first outbreak of true Fire blight in Europe occurred in Laxton Superb pear in Maidstone, Wrotham and Rochester areas of Kent in 1957, though the pathogen was not finally identified until 1958. Since then it has become widespread in Kent and Essex and specially destructive to this variety of pear, probably because it tends to produce a quantity of late blossoms. Infection is favoured by high humidity and high atmospheric temperature and these conditions occur later in the year in England than in fruit growing parts of N. America.

Because of its destructive nature and because the Kentish outbreak was the first in Europe and formed an obvious focus from which the organism might spread to the continent, an attempt was made to eradicate the disease by destruction of all infected trees. Unfortunately *E. amylovora* has a wide host range which includes most Rosaceous trees with pome fruits. It is especially active on *Chaenomeles*, *Cotoneaster*, *Crataegus*, *Cydonia*, *Pyracantha*, *Pyrus* and *Sorbus*. *Malus* is susceptible but apparently not highly so and infection on *Prunus* spp. is usually negligible.

Symptoms of Fire blight were first observed at Kew early in June, 1964, on *Crataegus heldreichii*, in the main *Crataegus* collection south of the Temperate House. Identity of the organism was confirmed at the Plant Pathological Laboratory, Harpenden, and infected branches were at once cut out and burned. In the last

week of June, however, the disease was recognised in *Chaenomeles* spp. and during July it appeared in *Cotoneaster* spp., the *Crataegomespilus* hybrids, and *Pyrus calleryana*. In spite of a protective Streptomycin spray applied to the entire *Crataegus-Cotoneaster-Sorbus* collection and drastic cutting out of infected bushes, spread of infection continued through August and involved species of *Pyracantha* and *Sorbus* and, unfortunately, the rare *Dichotomanthes tristaniaecarpa*. A superficially similar blossom blight in *Spiraea* spp., *Neillia ribesoides* and *Physocarpus capitatus*, proved, fortunately, to be due to one of the native species of *Pseudomonas*. *Malus* spp. escaped infection during 1964 apart from a single shoot infection in *Malus florentina* detected and removed on 15th September.

In the meantime Fire blight appeared on young trees of *Sorbus* spp. in nearby streets of Richmond and on *Cotoneaster* bushes in Richmond gardens. While every effort was made to eradicate the disease from the gardens and, by the co-operation of Richmond Corporation, from the surrounding streets, there is obviously good reason to fear Fire blight has come to stay and will be a limiting factor in the growth of pome fruiting trees and shrubs at Kew.

R. W. G. DENNIS.

KEW BOTANY CLUB

The Annual General Meeting was held in the spring of 1964. Mr. A. R. Smith succeeded Mr. D. Philcox as Chairman. The following committee members were elected : Messrs. K. Robinson, P. Wilson and J. Mitchell.

At this meeting a paper was given by the new Chairman on "Collecting and Preparing Herbarium Specimens". This proved of great value to the new members and during his very informative talk, emphasis was placed on the application of the new club rules. Later, during the winter period, Mr. P. Hunt spoke on "British Orchids". He showed some excellent slides in support of his talk.

A most successful all-day trip was made to Cuckmere Haven. The weather was good and considerable ground was covered. The local "Grass Walk" and the Box Hill excursion were well attended, but little enthusiasm was shown for the remainder of the trips and some were cancelled. It was obvious that many students preferred to go collecting on their own or in small groups.

The winners of the prizes are as follows :—

The Dümmer Memorial Prize for the student who submits the best collection of British Plants was awarded to :—

J. Endall.

The Proudlock Jubilee Prize for the next best collection was awarded to :—

A. Overland.

CLIVE E. B. GORDON, *Hon. Secretary.*

MUTUAL IMPROVEMENT SOCIETY.

The Annual General Meeting was held on 8th September, 1964, with Mr. G. E. Brown in the Chair. The following officers were elected for the year 1964/65 : Chairman, Mr. G. E. Brown ; Vice-Chairman, Mr. J. Simmons ; Hon. Secretary, Mr. A. Barber ; Hon. Assistant Secretary, Mr. J. O'Connor ; Hon. Treasurer, Mr. J. E. S. Souster ; Committee Members, Mr. A. Barnes and Mr. C. Hart.

SECRETARY'S REPORT FOR THE 1963-64 SESSION.

Interest and enthusiasm in the Society's activities have been maintained during the last session, in fact attendances at winter lectures was a little above the good standard set during the 1962/63 session. Twenty full papers and two lecturettes were given during the winter period on a wide variety of subjects. Mr. Beyer gave the first paper which was entitled "Hints on giving a mutual"—this was a very good start.

The Wisley and Cambridge debates were well attended, the speakers from Kew putting up a very good show on both occasions. At the Cambridge debate the Director of that establishment, Mr. Gilmour, strongly pressed that the date for the debate should be put back in future until April when the prospects of viewing the respective gardens before the debate were better.

During the summer two very successful film evenings were held using a 16mm. projector. One was by Mr. A. Armony on "Life in Israel", the other by Mr. G. Ranasisha on "The Country of Ceylon". Again we responded to an invitation to send a team to the Barnes Brains Trust and they had a very successful evening. Also during the summer there were three very well attended evening trips—to Wembley Parks Department, to the Lea Valley Research Station and to Messrs. Jackmans of Woking. This latter trip has been suggested as an annual event. In the Autumn there was a Sunday trip to the Westonbirt Arboretum in Gloucestershire. This was well attended and the fine autumn colour was seen under perfect conditions.

The prizes for the Society's activities were awarded as follows :—

The Hooker Prize (given annually by the Director and awarded to the member who is considered to have done the most to help the Society)—Mr. G. R. Woodhams.

The C. P. Raffill Prize (given annually by the Curator and awarded to the best paper given during the session by an eligible member)—Mr. J. E. Elsley for his talk on "Salix alba var. coerulea."

The Society's Prize, raised by the subscriptions of members and awarded to the member who has taken the most active part in the discussions and debates — Mr. G. O'Connor.

In conclusion I would like to thank Mr. Brown, Chairman, Mr. Yates, Assistant Chairman, Mr. Souster, Treasurer, and the Committee Members, Mr. J. Elsley, Mr. P. Bridgeman and Miss J. Dennis for their support and encouragement.

J. WOODHAMS, *Hon. Secretary.*

SYLLABUS : OCTOBER, 1963—APRIL, 1964.

1963		
Oct. 7	Hints on giving a Mutual	L. Beyer
" 14	Tree Injuries	P. Bridgeman
" 21	Basic Water Garden Construction ...	C. Popham
" 28	Horticulture as a Career	J. Woodhams
Nov. 4	<i>Salix alba</i> var. <i>coerulea</i>	J. Elsley
" 11	Commercial Propagation of Camellias ...	Miss J. Dennis
" 18	A Little on Primulas	Miss J. Hyde-Trutch
" 25	History of the Royal Botanic Gardens, Kew	M. Dodge
Dec. 2	Garden Construction with Heather ...	B. Salter
" 9	A Comparison of Horticulture in South Africa and Great Britain	J. Winter
" 16	The use of CO ₂ in Horticulture	Miss L. Tickner
1964		
Jan. 6	Annuals and Perennials of South Africa	M. Bentall
" 13	Film. Desert Conquest—Australian Mutual Provident Society	
" 20	Internal Debate—Messrs. R. Deans, C. Hart, J. Fisher and C. Duncan	
" 27	British Aquatic and Stream Side Flora...	C. Pead
Feb. 3	Two Lecturettes—(1) Staking	K. Hobbs
" 10	(2) Mycorrhiza	P. Bridgeman
" 17	The Artificial Irradiation of Plants ...	R. Deans
" 24	Use of Photography in General Horti- culture	R. Marshall
" 24	Providing for sport and recreation ...	G. Spate
Mar. 2	Kew-Cambridge Debate (at Kew)— Messrs. D. Pierce and J. Fisher	
" 10	Kew-Wisley Debate (at Wisley)—Messrs. J. O'Connor and A. Overland	
" 16	Commercial Production of Pot Chrysan- themums as House Plants	C. Hart
" 23	A Little about Insectivorous Plants ...	R. Trewinnard
Apr. 6	Modern Commercial Production of Early Tomatoes	C. Gordon

* * *

Damage to the Hooker Oak. This fine specimen of *Quercus lobata* in Bidwell Park, Chico, California, was severely damaged during a storm on the 12th and 13th October, 1962. Approximately half the tree, named in honour of Sir Joseph Hooker, was broken off 25-40 ft. above the ground. The city of Chico is spending \$5,000 this winter in sparring up and pruning its remaining branches. Its age has been estimated to be 1,000 or 1,100 years, but the ring counts of the largest branch broken off during the storm suggests that it may be no more than 400 years old. In 1953 it was 96 ft. high and 29 ft. in circumference 8ft. from the ground (*Madrono*, 17: 143, October, 1963). Seven acorns were received from this tree by Kew in late October, 1964.

NEW WORKS AND METHODS IN THE DECORATIVE DEPARTMENT.

House No. 4, the Conservatory, was reopened in November, 1963, this completion being the second rebuilding. It was first rebuilt in 1893, a century after the first house on the site in 1792. The improvements of wider paths, electric pumps and motorised blinds have already been felt, as also the improved condition of many plants growing under the clean glass, coupled with the fact that the winter of 1963-64 was without heavy fogs.

A movable partition between the warm and cool ends of the house has been installed. This, a long-felt need in winter time, has enabled the warm section to be maintained at an optimum temperature and the cool end to take enough ventilation to keep *Chrysanthemums* flowering many days longer than previously. The screen is made of aluminium framing with perspex glazing and is complete with two very satisfactory self-closing doors.

Heat therapy treated *Chrysanthemums* have replaced all the existing stocks which were so riddled with viruses that many were unfit to show in the new house. These fresh stocks of new and quite old varieties including exhibition types have a vigour and rooting potential which must be seen to be believed—how long they will remain clean is a debatable point. The dwarf pot *Chrysanthemums* of the Poitevine type have always been favourites in the conservatory for side benches and display work, so much so that the seven-foot high decorative varieties are only suitable as cut flowers. Unfortunately in the past these were only available with pink or white flowers. It is true that late struck decoratives would give a short plant but now a whole range of coloured Hartmann Poitevines of foreign origin have come into their own with strong and pastel colours, ranging from lemon to gold, salmon pink, wine-red and bronzes. With well formed flowers as big as the large decoratives, these stocks are proving invaluable.

It is not possible to follow all the fashions of the commercial growing world but an accepted practice, where applicable for a decorative house and of importance to students in training, must be shown. This year two batches of ten week "pot mums" from cuttings subjected to all-the-year-round treatment have flowered after Christmas, a period when little else is in flower. They budded and flowered well, but did demonstrate that the inferior winter light at Kew caused poor petal quality. The foliage and height were well balanced in five-inch half-pots and one of the new chemical growth retardants sprayed on the young plants induced shorter flower stems.

Young climbing plants have been established and it is hoped to increase the completeness of the collection of hybrids between species. The best of the following genera are now represented: *Passiflora*, *Lonicera*, *Abutilon*, *Campsis*, *Buddleia* and *Lapageria*. Of the pot plants: *Primula x kewensis*, *Begonia x kewensis*, *B.*

Gloire de Sceaux and some of the Veitch hybrids of *B. socotrana* x *B. dregei*. Also we have the first crosses of *Senecio*, *Venidium* x *Arctotis*, and *Streptocarpus*. The latter, largely developed at Kew many years ago, make an interesting focal point and demonstrates to the public the early efforts of Kew and the great nurserymen of the Veitchian era.

In the Lower Nursery, adjacent to Kew Palace, the new Decorative Department's nursery is beginning to take shape. There are three glasshouses which will later be joined up by sheds and a corridor. They are built in Western Red Cedar with widths of 10 ft. 6 ins.; 21 ft.; and 30 ft. There will be some overall standardization, as for example in bench and door widths. The first 2,100 sq. ft. of glass has been fitted with capillary benches, levelled to more or less 1/8 in. and surfaced with coarse sand. Water is supplied from a small overhead main tank and fed to the bench by several feeder cups complete with fibre glass wicks. The spread of water through the sand when drawn up from below bench height is very effective. Using this system it has been essential to save time and labour and not to create extra experimentation. Therefore, some 4,000 pelargoniums have been propagated in plastics and grown on these self-watering benches. The moisture control is good and growth has never stopped this winter when previously our plants overwintered by languishing in the depths of the pits. Other watering methods used last summer included drip nozzles in cold frames and it is hoped that the "spaghetti tube" method of watering will take care of the chrysanthemums whilst students are away for lectures.

Plastic pots are being used in larger numbers in the department not only for use on the capillary benches but in the other houses, where they eliminate the drying out of the back row with an almost complete saving of breakages at bedding out time. Unsterile boxes are being replaced by those made of plastic, while heavy alkathene bins are used to store fertiliser in, so avoiding the rusting away of metal bins. Carrying trays costing up to £5 a piece are replaced with bakers' galvanised wire trays at one-eighth the cost. Like other growers we are becoming container conscious and save time and labour by using peat pots each spring. A matt white plastic label has replaced the doubtful wooden label and the former are easily cut up from large sheets at half the cost of proprietary makes. They are used again and again, after washing by the boy. However, for every innovation introduced it is noticed that less man hours become available for growing plants and as with the cost of living the department only just keeps abreast with the work.

Ground preparation of the 17th century garden behind Kew Palace has enabled the flower garden students to exercise initiative and muscle for the last three winters. This was an inglorious dumping ground, a chicken and rat run and a home for builders' rubbish. During this operation the students have operated front-

loader tractors and have used a caldsozer to reduce the uneven ground to formation levels, to bank up and so to create a sunken garden which will be circumscribed with alleys of pleached Laburnums and Summer Jasmine. This work brings to mind the occasion when a group of new Kew students were shown a boning rod in a test with other objects. Among the answers were "sand pusher" and "used for snow pushing"!

It would appear that the soft silt and mud found in patches behind the Palace (in which the tractor often became involved), coupled with flooding before the new river bank was erected, made the site unsuitable for a formal garden. This may explain why no record, other than of a paddock, can be found of this area on old maps. Past students may remember the ash tip covered with mature trees on the river side. The "nose" of this has been landscaped and will make an excellent garden mount—such features go back in time to the very first records of gardens in Europe. Topped with a rotunda or kiosk of classical design, this feature with box framed serpentine path will command an unusual view of the Palace, with parterres and alleys spread below it.

The selection of a suitable clone of edging box has been made and the Arboretum nursery is making use of mist to propagate successive batches of cuttings. Some 4,000 bushy plants will be required for the parterre alone. A fine batch of Gallica Rose, *R. versicolor* 'Rosa Mundi' has been raised from cuttings and is growing on for a proposed hedge. In April, 1964, the first 300 yews were planted to form a stout hedge from the Palace walls down to the river to enclose the parterre.

Varieties of shrubby plants of the 17th century are not easily lost through time. Herbaceous plants are, and we are now searching for stocks of hardy auriculus and pinks in their early cottage forms. It will be interesting to see how Kew, though extending its horizons in the present and future, will be able to go back to plants known before Linnaeus—back to the time of Parkinson and John Ray. This will be demonstrated, when the small sunken part of this garden, which might be called Parkinson's Garden, is planted with old roses and "roots" as grown and described in the works of these 17th century authors.

G. J. E. YATES,

Assistant Curator, Decorative Department.

The daily maximum and minimum temperatures for December, 1964, are as follows:—

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Max.	41°	45°	48°	35°	48°	54°	54°	58°	57°	55°	55°	53°	54°	42°	41°	36°
Min.	28°	29°	30°	28°	39°	52°	45°	46°	45°	35°	37°	35°	52°	32°	25°	26°
Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Max.	42°	41°	40°	42°	44°	41°	42°	35°	35°	35°	35°	38°	50°	51°	48°	
Min.	36°	29°	35°	39°	37°	33°	35°	20°	22°	28°	19°	20°	31°	42°	36°	

KEW, ITS WEATHER AND ITS PLANTS IN 1964.

“ Sing a song of seasons,
 Something bright in all.”

Robert Louis Stevenson.

There was very little snow during the year and it was sunny, especially during the latter half of the year, in fact, with 1,044 hours of sunshine, it was well above the average. The type of summer may be gauged by the lack of disease on the outdoor Tomatoes—they ripened without a blemish.

Snow did fall in some parts of the country in mid-January but Kew escaped lightly and a rapid thaw set in almost immediately. Thus the opening months provided a great contrast to the severe weather of 12 months earlier. The dry weather in December, 1963, continued through January and February. For England and Wales it was the driest January since 1880. The three months, December to February, formed the driest winter over England and Wales for more than 200 years. The winter's work went ahead very well under these conditions while the large aerator was kept constantly busy on the lawns. The first Snowdrops were in flower in the clump just south of the Clematis Wall on 23rd January—this usually is the first clump to flower.

A noticeable plant by the Lakeside in early February was *Salix daphnoides aglaica*—the silvery white catkins showed to good effect against the dark background of deciduous trees on a nearby island. At this time also the large *Camellia reticulata* in the Temperate House was in full display with over 200 of its large heavy blooms. This large plant is 18 ft. high and as many feet through. Outside again, *Cornus mas* commenced blooming in early February and the run of mild weather which followed brought many subjects on very quickly. *Rhododendron praevernium* was out fully on 28th February.

The heavy rains of mid-March were very welcome—the soil was dry and the extra humidity resulted in a spring-like freshness among the early flowering subjects. By 20th March, *Forsythia suspensa* was just showing colour and a few Daffodils were out. In the Duke's Garden the flowers of *Tulipa kaufmanniana* shone from a *Primula denticulata* cover and at the same time the terminal flowers were developing on *Virburnum fragrans*—a sign with this species that flowering is near completion. The winter had really given way to spring. It all happens so quickly and “nature” has such a charming way of healing the wounds caused by the winter and of making good the effects of bad planting. The *Corylopsis* sp. in particular were effective with their delicate blossoms.

However, the early flowering subjects had many set-backs—March was the dulllest, coldest and wettest for many years and 2nd April was the coldest April day for 40 years, Kew had its coldest April spell for 53 years. After the first week of April conditions improved and by 10th April the early flowering Magnolias

were showing colour. May had changeable weather with frequent thunderstorms but nevertheless another record was broken—it proved to be the warmest since 1948 in Southern England. Little improvement occurred during most of June. There were unusually cold days while thunderstorms were frequent. In early June one of the most showy and interesting trees was *Styrax hemslevana*. The long racemes of delicate white flowers contrasted beautifully with the large luxuriant foliage. The individual flowers with their scent and prominent stamens are strongly reminiscent of *Citrus* blossoms. *Aesculus indica* were also out at this period. The Gardens benefited wonderfully from the wet early summer—growth was good while the tree trunks and branches stood out dark and clean against the abundance of green foliage and luxuriant grass.

July was warmer and sunnier especially towards the end. *Ligustrum sinense* in particular flowered very well in the early part of the month. There were warm and cool periods in August but it was dry in Southern England. The highest temperature of the year in the Gardens, 87° F., was recorded on 26th August.

Slowly but surely, under these conditions, the season changed—flowers such as the Border Phlox faded, gave way to the galaxy of compositious blossoms so characteristic of the autumn. The plants flowered and the fruits ripened under sunny and dry September-October skies. Even November was dry and mostly mild.

December was a month of great contrasts. On eight consecutive days it was very mild; and the Kew Observatory had its lowest temperature on grass in December for 59 years with 10° F.

Among the interesting “seeds” which were collected during the year were a few of the fruits of *Meliosma veitchiorum*. This was last collected in 1958 (*K.G.J.* p. 568, 1958, Vol. VII, No. LXIII). The acorn crop was outstanding.

RAINFALL AND TEMPERATURE READINGS FOR KEW IN THE YEAR 1964.

Month 1964	Rainfall in Inches	Temperature (in Fahrenheit)		
		Maximum Av.	Minimum Av.	Grass Av.
January ...	.41	42°	34°	31°
February ...	.75	46°	35°	32°
March ...	3.38	45°	37°	34°
April ...	3.21	57°	42°	39°
May ...	1.74	68°	46°	44°
June ...	4.00	67°	52°	51°
July ...	1.89	73°	56°	54°
August ...	1.40	72°	53°	51°
September ...	.65	70°	50°	47°
October ...	1.33	57°	41°	39°
November ...	1.38	52°	41°	39°
December ...	1.62	45°	34°	32°
Total ...	21.76			

THE BEHAVIOUR OF WINTER FLOWERING PLANTS AT KEW, 1964-65

(December Temperatures on page 441.)

	CHRISTMAS DAY	NEW YEAR'S DAY
<i>BERBERIDACEAE</i>		
Mahonia 'Charity'	Just coming out	Mostly intact
„ japonica DC.	Just coming out	Mostly intact
<i>CALYCANTHACEAE</i>		
Chimonanthus praecox (L.) Link	Just coming out. Few flowers open	Few flowers open
<i>CAPRIFOLIACEAE</i>		
Lonicera x purpusii Rehd.	Few flowers	Intact
„ standishii Jacques	Few flowers	Intact. Best in sheltered position
Viburnum x bodnantense Aberconway 'Dawn'		Badly scorched
„ „ „ „ 'Deben'		Seared but quite good
„ carlcephalum Burkwood	Few flowers	Undamaged
„ foetens Decne	Badly scorched	Badly scorched
„ fragrans Bunge		Scorched
„ „ „ 'Candidissimum'		Little damage
„ „ „ 'Farrer's Pink'		Badly scorched
„ tinus L.	Few flowers	Undamaged
<i>CRUCIFERAE</i>		
Aubrietia deltoidea DC. Lavender var.	Frosted	Very poor
Iberis saxatilis L.	Intact but poor	Very poor
„ sempervirens L.		
<i>ELAEGNACEAE</i>		
Elaeagnus x ebbingei Hort.	Flowers dropping	Most of flowers dropped & scorched
„ macrophylla Thunb.		Weathered but still in flower
Shepherdia argentea (Pursh.) Nutt.	Just coming out	Undamaged

CHRISTMAS DAY

NEW YEAR'S DAY

OLEACEAE

Fraxinus angustifolia Vahl. Not showy
 Jasminum nudiflorum Lindl. On south wall

Undamaged
 Undamaged

RANUNCULACEAE

Helleborus abschasicus A. Braun
 " atrorubens Waldst. & Kit.
 " niger L.
 " " " "
 " subsp. macranthus (Freyn) Schiffner
 " orientalis Lam.

Colour weathers well
 Little damage on any Hellebores

RHAMNACEAE

Colletia armata Miers Some flowers shrivelled

Most flowers shrivelled

ROSACEAE

Chaenomeles cathayensis (Hansl.) Schneid Colour showing but not out. S. wall
 Prunus subhirtella Miq. var. autumnalis Mak... .. Very slightly singed
 " " " " " 'Rosea' Not open

Not out but undamaged
 Badly singed, young flowers intact
 Not open, undamaged.

SCROPHULARIACEAE

Hebe x andersonii 'Mauvena' Badly damaged
 " 'Spender's Seedling' Badly damaged

Very poor
 Very poor

THEACEAE

Camellia japonica L. 'Noblissima' Damaged
 " sasanqua Thunb.
 " " " 'Alba' Slightly damaged
 " " " 'Grandiflora Alba' Slightly damaged

Even half-open buds damaged
 All open buds dropped, unopened
 buds undamaged

VIOLACEAE

Winter Flowering Pansies Badly frosted

Shattered

This list is of plants in flower on Christmas Day.

Another survey was made on New Year's Day after a week of frost and dry east winds.

THE FLORA AND VEGETATION OF ICELAND.

For anyone interested in botany, Iceland is a wonderful country to visit. That was my conclusion after spending two somewhat cold weeks there last August. I gained a great deal of satisfaction from studying the natural vegetation and the problems of gardening in this cold, gale-swept island.

Iceland is situated in the North Atlantic Ocean with its northernmost tips just touching the Arctic Circle. All the other Nordic countries, with the exception of Denmark, extend much further north. The shortest distance to Greenland is about 180 miles but to Norway about 625 miles. The climate could be broadly described as cool, wet and windy. The average winter temperature is about 30 deg. F., while the mean summer temperature is in the region of 52 deg. F.

In the period of settlement (875-930), Iceland was wooded between the mountains and the shore. These woods largely consisted of low birch and willow, of which traces still remain. During the years that followed most of the woods were felled for fuel and the cold climate during the Middle Ages, together with extensive sheep grazing, prevented their regrowth. Today, only small areas of the extensive wood and scrubland remain in sheltered places in the valleys of the lowland, the largest being the woods at Hallormsstadur in East Iceland and Vaglir in North Iceland. There are also small remains of woods in inaccessible places, in particular among the rapid glacial rivers to the south of Vatnajökull. The only trees of importance are the birches—*Betula pubescens* and *B. tortuosa*, the tallest individuals being just over 30 ft. high, but a few Rowan (*Sorbus aucuparia*) and the Tea-leaved Willow (*Salix phylicifolia*) can be found. In places the tree-line extends to 2,050-2,250 ft. but on the average it is at the 1,100-1,500 ft. level. Above 2,600 ft. the central highlands and mountains are almost bare of vegetation.

In the second half of the eighteenth century, attempts were made to plant conifers in Iceland. It was not until the end of the nineteenth century however, that any appreciable reforestation work had started, but in recent years it has been organised on a large scale. Reforestation societies are now active in most districts and both birch and pine trees have been planted at numerous places around the country. Sturdy conifers are now growing from seeds imported from Alaska, Siberia and Norway. In recent years there has been a frequent exchange of groups of tree-planters between Iceland and Norway.

The flora of Iceland includes about 440 species of vascular plants (116 species of the genus *Taraxacum* and 180 species of *Hieracium* excluded). The small number of species is not wholly conditioned by the climate but is mostly due to the Pleistocene glaciation and the isolation of the country. About 50 per cent. of these 440 species, of which 97 per cent. are found in Norway but only about 66 per cent. in Greenland and about 85 per cent. in

the British Isles, are regarded by Icelandic botanists as glacial survivors. Grasses and sedges are the commonest vascular plants in Iceland; the rose and daisy families are also fairly widespread.

Some of the western species are not normally found in the British Isles or on the European continent. The most common of these are the Arctic Fireweed or River-Beauty (*Chamaenerion latifolium*), the Broad-leaved Willow (*Salix callicarpaea*), the Northern Green Orchid (*Habenaria hyperborea*) and Lyngbye's Sedge (*Carex lyngbyei*). In North Iceland there are some arctic species not found in other parts of the country, for instance, the Alpine Witlow-grass (*Draba alpina*), the Foliolose Saxifrage (*Saxifraga foliolosa*), the Mountain Heath (*Phyllodoce caerulea*), the Upright Primrose (*Primula stricta*) and the Arctic Harebell (*Campanula uniflora*). The bryophyte flora of Iceland includes about 500 species. With very few exceptions, the 450 species of Icelandic lichen flora are of Scandinavian character.

The lava-fields in the south-west stretch as far as the eyes can see. They are carpeted with two mosses—*Racomitrium lanuginosum* and *R. canescens*. These appear on the old lava-flows and some have built up to a height of over three feet. In turn the mosses are replaced by dwarf shrubs and later on by the birch. In the areas around the hot springs (which occur near Reykjavik and are used extensively for heating purposes, including commercial glasshouses), there are very favourable conditions for vegetation. Some characteristic species are only found in such places in Iceland and these include the Adder's Tongue (*Ophioglossum vulgatum*), the Persicaria (*Polygonum persicaria*), the Marsh Pennywort (*Hydrocotyle vulgaris*), the Water Speedwell (*Veronica anagallis-aquatica*), the Marsh Cudweed (*Gnaphalium uliginosum*) and the Jointed Rush (*Juncus articulatus*).

During the author's visit, snow lay 3 in. thick in the north-west. The largest glacier in Iceland is in the south-western part of the country and covers an area of 3,140 sq. miles. The Akureyri Botanic Garden, although in the North of Iceland, has a good collection of trees. The surrounding mountains provide slight protection from the cold winds.

C. HART.

Colin Hart, a Student of the Three-Year Course, spent his holiday during 1964 in Iceland. Since his return he has given a talk about Icelandic gardening on the B.B.C. Home Service programme—"In Your Garden" (19th December, 1964).—Ed.

* * *

Students' Day was held on 9th May, 1964. Approximately 1,000 visitors attended. Members of the staff acted as guides and conducted parties round the main departments of the Gardens, including the Herbarium and Library, Museums of Economic Botany and through the Living Collections describing the scientific and horticultural work of Kew. (Herb. News).

THE HERCULES FOUNTAIN

The following note concerning the Hercules Fountain, situated in the Palm House Pond, may be of interest to Kewites. It supplements the information supplied in the 1963 *Journal* (p. 327) and is the result of some research on the matter. When the statue was placed in its present position we were told that it had been presented by H.M. The Queen and that it had originally stood on the East Terrace at Windsor. The name of the sculptor was thought to be Crozatier and it was known that George IV had obtained the statue in 1826. The matter might have been allowed to rest there had not the discovery been made that an identical statue was pictured on a postage stamp issued by Monaco in 1948. Reference to a stamp catalogue disclosed the fact that this particular stamp formed one



POSTAGE STAMP
DEPICTING HERCULES

of a series commemorating a Monegasque sculptor named François Joseph Bosio (1769-1845). A letter subsequently addressed to the postal authorities in Monaco produced some interesting information, both about Bosio himself and the Hercules statue. It appears that although Bosio was a native of Monaco he spent much of his life in France and became the official sculptor to Napoleon I and later to Louis XVIII and Charles X. Many of his works, in fact, are to be seen in the streets and gardens of Paris and also in the Louvre. The statue of Hercules was first exhibited, in plaster, at the Paris Salon in 1814. It represented a combat with Achelous, a river deity, in the guise of a large snake. Ten years later, the statue appeared once again at the Paris Salon but on this occasion had been cast in bronze. In 1825 the same statue was placed in the Jardin des Tuileries where it stands to this day. This information induced the writer to approach Dr. H. Heine, an old Kewite who now resides in Paris, for further particulars and if possible to obtain photographs of the Paris statue. Dr. Heine, with his accustomed thoroughness, not only procured photographs, both in black and white and in colour, but searched the relevant literature as well. The substance of his findings are as follows :

The bronze statue of Hercules was ordered by the Minister of the King's Household at a sum of 45,000 francs. The actual casting was carried out by A. J. M. Carbonneaux who was responsible for casting many of Bosio's works. The statue which was obtained by George IV and is now at Kew is a copy of Bosio's original and on this occasion was cast by C. Crozatier. It would

be interesting to know more details of this transaction. How was it that Crozatier was allowed to make the duplicate casting and how much did George IV pay for it? As a matter of interest, the original statue in Paris bears the following inscription beneath the right foot of Hercules: "Bosio premier sculpteur du Roi Exécuté en bronze par Carbonneaux 1824". One wonders whether Crozatier left his own mark on the Kew replica. The records are silent on the matter though it should not prove too difficult to check.

Anyone visiting Paris will find Bosio's original statue in the Jardin des Tuileries alongside the Rue de Rivoli and quite near to the Metro Station "Concorde". It is not, of course, obscured by fountains. Finally, I should like to express my indebtedness, both to the Director of the Post Office in Monaco and to Dr. H. Heine for their valuable assistance in the preparation of this account.

F. BALLARD.

THE ROYAL BOTANIC GARDENS, KEW, c. 1860.

This charming print of the Palm House about the middle of the nineteenth century was used last year as a new Kew Guild Christmas card.

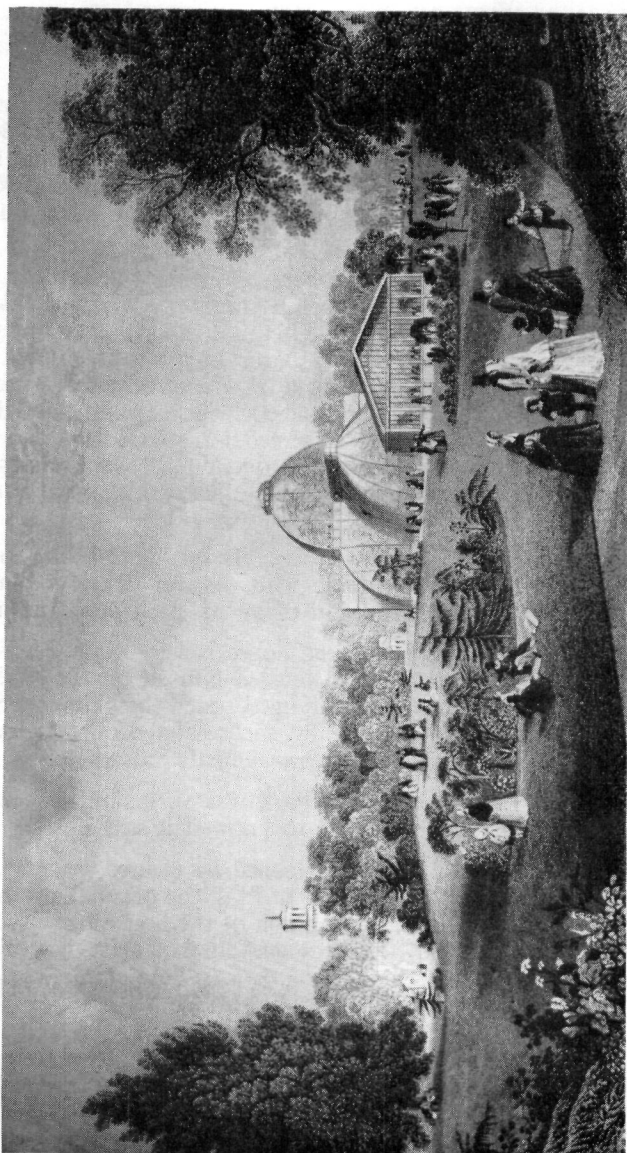
Some authorities claim that the Palm House (1844-8) is the most beautiful building at Kew. Decimus Burton has been credited with its design, but an unpublished manuscript history of Kew by John Smith, then Curator of the Gardens, declares that Richard Turner, the Dublin engineer, was the sole designer. Indeed the functional simplicity of its construction is what one would expect from an engineer; Decimus Burton's conception of a glasshouse is exemplified in the rather heavy Temperate House.

The tall tower just protruding above the trees is the Campanile which was linked to the Palm House by a tunnel, intended to serve as a smoke shaft from the furnaces. This proved unsuccessful and two small chimneys were subsequently built in the Palm House itself. At the top of the Campanile was a water tank, connected by a suction pipe to the River Thames, which provided water for the Gardens.

W. A. Nesfield, the landscape gardener, laid out geometric parterres and gravel paths around the Palm House. These have long since disappeared and Nesfield is now remembered for the Broad Walk and the Pagoda and Syon Vistas. The Pond in front of the Palm House is all that remains of George III's Lake which was filled in early in the nineteenth century.

The small building just to the left of the Palm house is the Temple of Bellona (1760) which originally stood a few hundred yards north of the Pond. The other building at the foot of the Campanile is the Temple of Arethusa (1758) which now houses our War Memorial. Both temples were built by Sir William Chambers, the architect of the Orangery and Pagoda and other buildings which embellished the eighteenth century garden of Augusta, Dowager Princess of Wales. (Print on opposite page.)

R. DESMOND, *Librarian.*



THE PALM HOUSE (1844-8)

THE TEMPERATE HOUSE LODGE, KEW.

This unusual and finely built house, completed in 1866-67, and now nearing its centenary, was designed by William Eden Nesfield (1835-1888). His father, William A. Nesfield, was responsible for laying out grounds around the Palm House, the Broad Walk, and Pagoda and Sion Vistas.

Nesfield specialised in large country mansions, his principal works being Combe Abbey, Cloverly Hall, Shropshire, and Kinnel Park, Abergele. He took pride, however, in his cottages and lodges, lavishing great care and detail on them. Those at Kew and Regents Park (1864), were landmarks in the history of such buildings apparently.

The Kew Lodge has a rather top heavy appearance, being dominated by its massive central chimney. Nesfield liked to employ heraldry as a decorative feature, and the chimney here has a carved panel of the Royal Arms in red rubber brick set in the east and west sides of the stack. A most unusual feature. The steeply pitched roof next engages the eye with its pedimented dormer windows ornamented with rose shaped lead work, and the widely overhanging plaster cove, also much decorated. A close inspection of the walls reveals some very fine brick work, with hand cut pilasters.

The main body of the house is quite substantial, but no damp course having been laid, trouble with dry rot developed in later years, necessitating the provision of an external damp course.

By contrast, the inside of the house is very plain and simple. (The architect seems to have exhausted himself on the exterior!) It consists of a series of rooms arranged round the chimney. Sundry alterations and additions made by succeeding occupiers have led to some very curious domestic arrangements indeed!

The Gate Lodge at Kinnel Park was very similar in appearance, and it would be interesting to know if it still exists.

Some of this data has been gleaned by chance from a volume of the *Architectural Review* of 1897. In it, the original ground plan is printed. There is also a photograph of the house from the north side. In the foreground, the knot garden that existed up to 1951 can be seen.

R. M. SOUSTER (Mrs.).

KEW GUILD CHRISTMAS CARDS

Christmas Cards will be available from the Hon. Treasurer
from October, 1965

A NEW CARD WILL BE AVAILABLE FOR THIS YEAR

Details will be given later

All cheques and postal orders should be crossed and made payable to the
Kew Guild

THE KEW THREE-YEAR DIPLOMA COURSE.

This has begun to develop into the more comprehensive course that has long been desired. The new lecture syllabus is intended to give a reasonable cover of the subjects required for the General Section of the N.D.H. Final. As this examination is itself under review by the R.H.S. it has not been thought wise to change the pattern of lecture subjects too much until this review is published. However, one innovation has been the taking of the Landscape Design and Construction lectures at Hammersmith College of Art and Building. This together with a great length of time spent on the drawing board has made an improvement in this sphere.

During each year of the course there is an extra compulsory part which allows the students to show extra effort. In the first year each have a small plot 32 ft. x 12 ft. on which they grow a representative range of vegetables. As today many of the students lack the background of practical experience which was the rule in the past, it was felt desirable that this defect be made good in this way. In their second year they are to make a satisfactory plant collection, but this will be on an ecological basis—also the specimens will need to be selected from a list of plants permitted. In the final year a project or essay will be submitted, this will necessitate reading, research and practical work. These three items are to be taken into account in the examination progress of the students.

By the time this is in print, the present students will be receiving their lectures in the new laboratory and lecture rooms in the Jodrell Laboratory. These new facilities should provide an excellent opportunity for the students to learn in ideal surroundings. We hope all Old Kewites, who have the opportunity, will come and see for themselves and perhaps encourage a worthwhile youngster to apply for a studentship here at Kew.

L. PEMBERTON, *Supervisor of Studies.*

* * *

Cactus and Succulents were bedded out in the area between No. 4 and 5. About ten tons of rock were used to provide suitable furnishing.

* * *

The pair of Black Swans (Australian and Tasmanian) nested twice on the island at the east end of the Lake—once in the spring and again in the autumn.

A PLANNED "CONSERVATION OF ORGANIC MATTER" ON THE DRAWING BOARD.

Organic matter will always play an important part in successful gardening, but supplies are likely to become increasingly difficult to obtain. It is possible to provide some answers to this by careful planning, indeed, when the new garden or park is being planned, considerable thought should be given to this need at the drawing-board stage.

Many of the problems among trees and shrubs are brought about by the need of the owner to keep the place tidy—in other words, to rake up the leaves and we hope, compost them. Some authorities burn them!

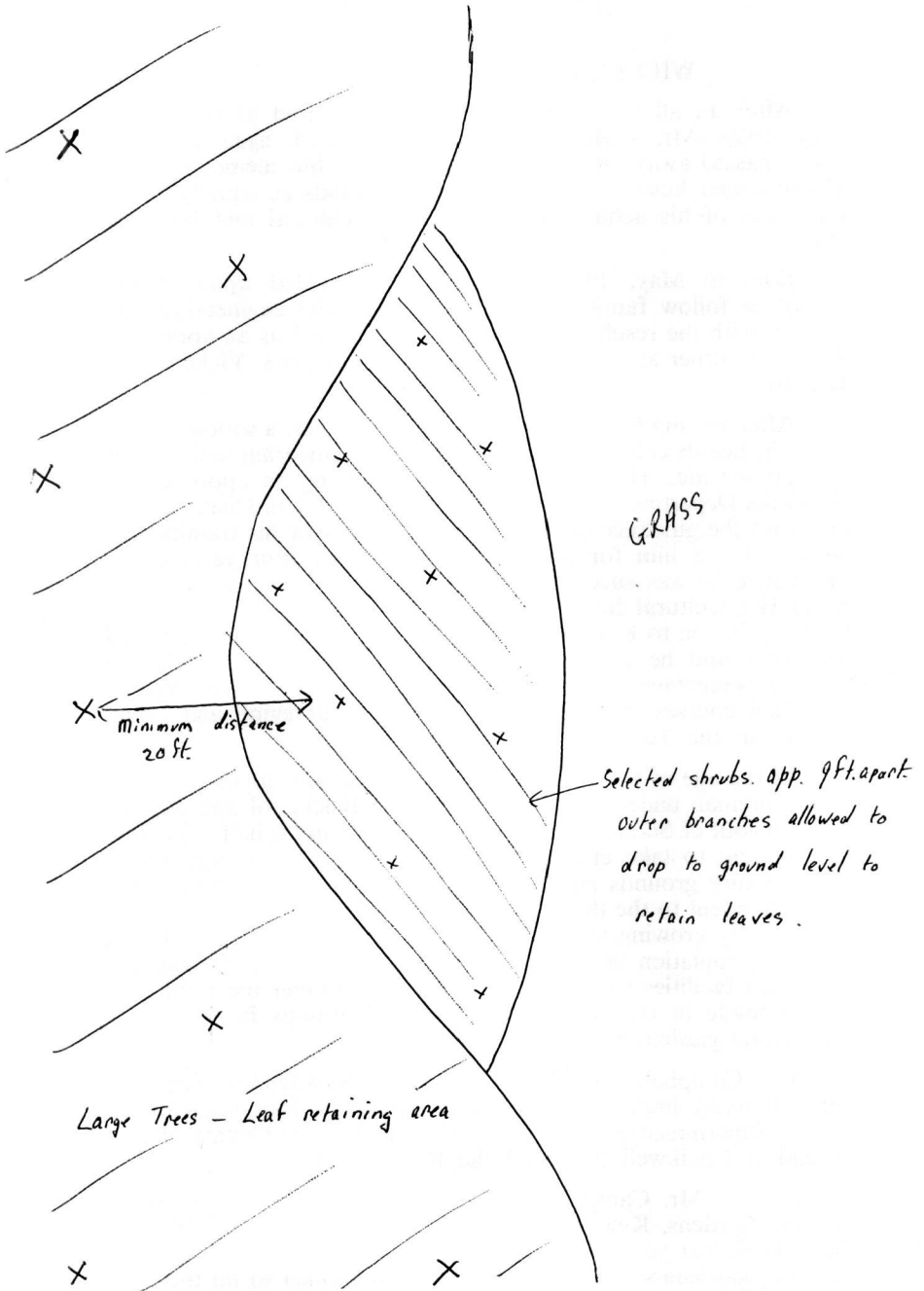
The plan is a suggestion for grouping trees and shrubs together. The centre and perhaps bulk of the clump is made up of trees or tall shrubs. The shrubs are in groups on the edge and the whole or part is bordered by grass, in fact we have a bold grouping of outline, form, texture and vegetation for effect with the provision of a sheltered area for leaf fall. In addition any leaves which fall in the vicinity may be raked or wheeled into the bed. The beauty is of course, that the shrubs help to retain the leaves in the area.

There is a danger that the trees will outgrow and overshadow the shrubs. This must be counteracted ultimately by good adequate pruning, but in the first instance by choosing the correct planting distances. These will vary with the size of the trees and shrubs and with the overall proportions of the planning. (Plan opposite.)

FLORA AND FAUNA.

How I admire, I really do,
The expert staff that work at Kew.
On botany, I've always found
Their knowledge is quite world renowned.
Full throated, and with powerful lung,
All their praises I have sung.
In every grade of staff at Kew,
I marvel at the things they do.
Yes indeed, there's nothing surer,
They know their stuff on subjects flora.
But when it comes to simple fauna,
Like dunces they deserve the corner.
For I have heard an ugly rumour
They've made a real unholy 'bloomer'
Ye gods of nature! show no mercy.
They called a female hedgehog PERCY.
And now that Percy is expecting,
Its name, of course, will need correcting.
I'm sure the lady would be keener
If they changed it to PERCINA!

A. W. EVERETT, *Night Watchman, Herbarium.*



In Memoriam

WILLIAM M. CAMPBELL, V.M.H.

After an all too short retirement—he retired at the end of May, 1960—Mr. William Macdonald Campbell, aged sixty-four years, passed away on the 3rd October, 1964, but memories of his kindness and humour will remain in our minds as equally as the memories of his achievements in the horticultural and botanical world.

Born in May, 1900, Mr. Campbell decided upon leaving school to follow family tradition and enter the engineering profession, with the result that he became indentured as an apprentice fitter and turner at the shipbuilding yards of Messrs. Vickers Ltd., Barrow.

After serving for nearly a year on submarines, a serious breakdown in health compelled him to give up engineering and to seek an outdoor life. He was fortunate in becoming an apprentice in the Parks Department, Barrow, under Mr. W. H. Christian, N.D.H., and with the guidance of this skilful horticulturist his training was such as to fit him for municipal work. After four years as an apprentice he was successful in gaining a studentship at the John Innes Horticultural Institute, where he studied for over two years before going on to Kew as a Student Gardener. At Kew his record was good and he completed the curriculum of lectures with an average percentage of marks in all subjects of 91.8%, as well as attending courses of lectures on both land surveying and book-keeping at the Technical Institute, Richmond.

At the age of twenty-four, Mr. Campbell was appointed landscape foreman under Mr. A. Blackburn at Blackpool and assisted in the layout of Stanley Park for about a year and a half. On leaving he went to take charge of the Birmingham University sports and pleasure grounds and later took over the post of first Parks Superintendent to the then Urban District of Heston and Isleworth. This rapidly growing area had a population of over 80,000 with a planned population of nearly 200,000, and the need for parks and recreation facilities was great. Many will remember the wonderful job he made in the conversion of rubbish dumps in the parks, ornamental gardens and playing fields.

Mr. Campbell's next move was to Southend-on-Sea and amongst many improvements carried out in the four years of his stay as Superintendent were the construction of the County cricket ground at Chalkwell Park and the Rock Gardens.

In 1937 Mr. Campbell was appointed Curator of the Royal Botanic Gardens, Kew, and his term of service extended through the difficult war years when materials and labour were very short, and lady gardeners had to be recruited and trained to fill the gaps

formed by the removal of trained staff for the Services. For several years after the war, various batches of ex-servicemen descended upon Kew as "trainees" expecting, all in a short space of time, to make up for the lost years. Mr. Campbell was unsparing in his help and consideration. In fact, his great interest in all the students at Kew will always be remembered, together with the work he put in to improve their conditions and fix them in posts, and many owe their later successes to his tuition and guidance. The following is an extract from a letter sent by Mr. Campbell shortly after his retirement to Mr. Brian Pitcher, which illustrates his regard for the students at Kew :—

"The future holds great promise for the Students at Kew, and I feel certain that, as in the past, you will all do your best to make the most of opportunities made available to you. Of all pleasures associated with work at Kew, that which I think I will miss most of all will be the happy and cordial relationships with all the Students and younger people in the Gardens."

Amongst his advisory work Mr. Campbell was seconded during the war years to the Ministry of Home Security for some months to organise the Horticultural Section of the Camouflage Establishment, and after the war he accompanied representatives of the War Graves Commission on a tour of the war graves in Belgium and France to advise on the problem of reinstatement of the cemeteries.

In 1958, at the request of the Minister of Trade and Production, Dominica, British West Indies, Mr. Campbell carried out a review of the conditions in the Botanic Garden. He also prepared layout for six parks and open spaces and reported on the other aspects of town planning in the two chief towns on the island. After the visit, in a letter sent by the Administrator of the Colony to the Colonial Office, it was stated "The Government of Dominica wished to record its deep appreciation to the Authorities of Kew for arranging the visits on terms so generous to the territory, and the skill and enthusiasm with which Mr. Campbell addressed himself to the assignment. He created a most favourable impression in the island." Mr. Campbell returned via Barbados and Bermuda, and at the latter was an official guest of the Government. During his visits he collected a great variety of plant material.

Mr. Campbell was a member of the Council of the Institute of Park Administration for many years and he took special interest in the examinations and the School of Training. He was President of the Institute in 1949/1950.

In 1957, Mr. Campbell was awarded the Victoria Medal of Honour, and the following is an extract from the *Kew Guild Journal*, 1957 :—

"With pride we record the award of the Victoria Medal of Honour to our Secretary, Mr. W. M. Campbell, Curator.

Members gain particular pleasure from this award for Mr. Campbell has maintained his work and interest in Guild matters over a long period and its stable position is due, in no small measure, to his efforts. We look forward to many more years of our Secretary's wise guidance and enthusiasm."

Mr. Campbell was Secretary of the Kew Guild from 1950 until his retirement, and he was a trustee of the Guild for many years. He was, with Mr. Pearce, Joint Hon. Secretary and Editor of the *Journal* from 1946 to 1952. As Curator, he started the C. P. Raffill Prize for the Mutual Improvement Society, and he played a very active part with the Society, of which he was often its popular Chairman. He was also for a number of years a member of the Floral B Committee.

Keenly interested in sport, although more interested and a better player at football than cricket, "Billie" played as a student and for Present Kewites and Old Kewites. At that time we had about the most successful football club and team of any time. Many have been the pleasant recollections exchanged between Billie and his colleagues at the Annual Kew Dinners since those happy times.

To Mrs. Campbell, whom Billie met whilst he was at the John Innes Institute, we extend our heartfelt sympathy. She has been with us at our Annual Dinners; joined with us in our reminiscences, and laughed with us too. We all know how she must feel, and our thoughts have been with her.

P. W. H. CONN (1923).

EDWARD HOPPER, B.E.M.

On the 8th April, 1964, Mr. H. A. Perkins (1925) sent us the sad news of the passing of Edward Hopper—he wrote: "He and I were at Kew together and as a matter of fact I was the best man at his wedding. He was very likeable and was well respected in the district. I understand that you already knew he was awarded the B.E.M. last year."

Mrs. Kathleen Hopper, his wife, sent in the following details: "I am enclosing a snapshot of my husband when he was 65 years of age. He was Head Gardener at Weston Hospital where he helped to rehabilitate numerous patients where we lived for nearly 40 years. He also played a leading role in the village, being Chairman of the Parish Council, Church Warden for 12 years and Organist for 20 years. He was badly wounded during the First World War. He had retired from the hospital and had been very ill for three years."

There is nothing more that one can or should add to this account of a fine life devoted fully to public service.

We send our sincere sympathies to Mrs. Kathleen Hopper and their daughter.

M. J. BARNETT, M.B.E., A.H.R.H.S., A.H.R.N.Z.I.H.

New Zealand has lost one of her greatest horticulturists. Morris John Barnett began his horticultural career as an apprentice at the Dunedin Botanic Gardens under the late David Tannock. In 1912 he worked his passage home to England on a freighter, to become the first New Zealand student to enter Kew. He was awarded the Hooker Prize in 1913. Shortly after the outbreak of World War I he joined the N.Z.E.F. and served in Gallipoli, Egypt and France, and was twice wounded in action.

Before being invalided home to New Zealand in 1917, he married Miss Doris Taylor of Kew Gardens. They returned to New Zealand, and Morris Barnett shortly afterwards took up the position of foreman of the glasshouses and rock gardens at the Dunedin Botanic Gardens. In 1924 he was appointed Superintendent of the Oamaru Parks and Gardens and in 1928 he became Superintendent of the Christchurch Parks and Reserves. When the Botanic Gardens and Hagley Park came under the control of the Christchurch City Council in 1946 he was appointed Director of Botanic Gardens, Parks, Reserves and Plantations, and he held this office until his retirement in 1955.

His services to horticulture were recognised both in New Zealand and overseas. His highest honour was that of being elected an Associate of Honour of the Royal Horticultural Society, and he was the only New Zealander with that honour. He was also an Associate of Honour of the Royal New Zealand Institute of Horticulture and he held its National Diploma in Horticulture. For two years he was President of the New Zealand Institute and was for many years a member of the Examining Board, as well as being chief examiner for New Zealand. In 1951 he was awarded the M.B.E.

A great love of Morris Barnett's was the New Zealand native flora. He was a founder member of the Canterbury Native Flora Society and in 1956 he received the Bledisloe Trophy of the Society for his contribution towards arousing and stimulating interest in our native flora. At the time of his death he was President of the Canterbury Horticultural Society, having served actively on its Management Committee for 36 years.

Morris Barnett was a pillar of strength to all those who were associated with him. As a teacher and judge few could emulate him, and he could truly be called the Dean of Horticulture in New Zealand. He was extremely loyal to Kew, and endeavoured at all times to attend the gatherings of Kiwi Kewites. He acted as President of the New Zealand branch for many years, and when he returned to England in 1951 he renewed many friendships and associations with Kew and Kewites.

To Mrs. Barnett and her son, Godfrey, we extend our very deepest sympathy.

J. O. TAYLOR (1947).

G. C. JOHNSON.

We regret to record the death of George Conrad Johnson, O.B.E., on the 14th April, 1964. As Mr. Johnson was President of the Guild in 1959/60 most of the outstanding details of his fine career have already been published (*K.G.J.* 1959). We felt that something of a more personal note would be appreciated by members and Mr. Robert T. Pearl, an old friend of "Johnny" has very kindly written this for us :

"Johnson's professional achievements are recorded elsewhere, and I would like to add a personal note. My first contact with 'Johnny' was nearly 40 years ago through the first get-together of horticultural advisers, teachers and research workers in the South-east. There, he characteristically sighted possibilities that I did not see myself and when in 1930 he became Secretary of the then small Horticultural Education Association, he pressed me to become its first Editor. So began a partnership under his inspiring leadership that ended officially in 1947, but continued personally until his passing.

"Many young men and women must have known similar experiences—Johnny gave you the chance, aided its fruition, enjoyed your success and let you have the limelight. The approach upwards was not very different—'Plant your good ideas in the boss's mind, so that he thinks they are his own. He'll get the credit and you'll get the job done and everyone is happy. See what I mean lad?' I came very often to see what he meant and his skill in applying it.

"He was a splendid man to work with. Clear vision, great natural sagacity, well-founded optimism, tremendous vitality, efficient staffwork were all his, and the priorities were right. Above all, there was a crusading devotion to the cause of training young people and of providing a first class research and advisory service for commercial growers in preparation for the technological age that so few then saw coming. Self taught, he passionately wanted others to have the opportunity that were denied to young gardeners in his day as a garden boy. He fashioned the Horticultural Education Association to become a powerful influence in the betterment of teaching, advisory work and research dissemination for the industry.

"His wisdom, knowledge and kindness were shared with all but the pretentious. The cause of the young and coming was nearest his heart. From war-time staff meetings a well remembered injunction to younger officers comes to mind—'When you don't know, say so lad, but add—I'll find out and let you know.' This grand old man, formidable in experience but humble in service for others, is sorely missed—and so too the smile and twinkle that made the kindly creases at the corner of his eyes."

R. T. PEARL.

(Mr. Robert T. Pearl, M.Sc., A.R.C.S., D.I.C., was for 27 years a University teacher of Horticultural Science at Wye College, Kent, and Nottingham University and later he was in the N.A.A.S. as technical editor of horticultural publications.)

MEMORIAL TO "JOHNNY"

The directors of *The Grower* have covenanted with the Royal Botanic Gardens, Kew, to endow a fund which will serve to provide a permanent memorial to Mr. G. C. Johnson, who died on April 14th last.

The creation of this fund will enable the Director of the Royal Botanic Gardens to award each year in perpetuity to a student at Kew a prize which will initially be worth not less than £40.

It is thought probable that many other people who know Mr. Johnson would like to be associated with this memorial and help to increase the value of the annual award.

Anyone who would like to contribute is invited to send a cheque made out to Grower Publications Ltd. and crossed the G. C. Johnson Memorial Fund. Envelopes should be addressed to the Managing Editor, "The Grower", 49 Doughty Street, London, W.C.1.

(Members may like to track back the history of *The Grower* Prize. They will find this is first mentioned in the 1960 *Journal*—Vol. VII, No. LXV, page 763.)

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ARTHUR J. LOGSDAIL, B.Sc.

"We, your former students, have richly shared in your purposeful teaching, wealth of culture and philosophy of life"—these lines, quoted from the address at the Testimonial Dinner and presentation of gifts at the time of Logsdail's retirement in December, 1952, represent an accurate summary of the man himself and his work in the horticultural profession.

A. J. Logsdail passed away on 11th July, 1963, in his 79th year. He was born in India of Missionary parents of the Church of England. His education having taken place in England he embarked on a horticultural career by spending a year at the garden of the Archdeaconry, Isle of Man. This was followed by the attendance of a two-year Diploma Course at Ontario Agricultural College, Guelph, Ontario. (This course covered Horticulture, Chemistry, Botany and Entomology, the actual lectures and classroom work being carried out during the seven winter months).

Logsdail returned to England and spent two years at The Nurseries, Whetstone, before entering Kew as a Student Gardener in October, 1906. However, he did not stay at Kew for any length of time, for in July, 1907, a return was made to the Agricultural College, Ontario, from which he graduated with a B.Sc. of Agriculture in 1909. In 1919, after periods at the Vineland Experimental Station and the Central Experimental Farm, Ottawa (where he specialised on plant breeding and became Assistant Dominion Horticulturist), Logsdail joined the Kemptville Agricultural School, Kemptville, Ontario, where he was Instructor and Extension Specialist in Botany and Entomology. When he joined the staff it was a new institution and as head of the Division of Horticulture his was the credit of transforming a farm wheat field into beautiful campus.

Logsdail's wonderful work is aptly described in the address which we quoted from earlier—"We recall your love for fair play in sport, and remember with delight the qualities which kept you always young with your students, in or out of the classroom.

"Wherever there is a graduate of the Kemptville Agricultural School your influence is felt, your name recalled with respect and affection.

"As an accomplished horticulturist and one sensitive to beauty, you have created our campus, a pleasant product of your devoted skill; the same artistic skill that brought beauty to rural homes, school grounds and parks in so many communities of Ontario. We recognise, also, your valuable discoveries in new varieties of fruits and flowers."

Arthur J. Logsdail added considerably to the reputation of Kewites in America.

We send our sincere sympathies to his relatives—he leaves a family of two sons and three daughters by his first marriage and a widow from his second.

ARTHUR OSBORN, M.B.E., A.H.R.H.S.

In the last *Journal* we published the news of the death of this great Old Kewite, A. Osborn—President 1933/34. We also published a photograph in this issue (opposite page 334).*

The important details of his career appear in the 1934 issue of the *Journal* (Vol. V, No. XLI) when he was President—the account was written by W. Hales (1899) then Curator of the Chelsea P.G., who, of course, knew Osborn very well. From this occasion he was to continue as Deputy Curator and in charge of the Arboretum until he retired in 1945. (He was awarded the M.B.E. in 1946 New Year's Honours List). In all he was in charge of the Arboretum for 36 years.

The romance of a lifelong and active association with Kew and the Guild is woven into the pages of a very large number of the *Journals*, he was Editor-Secretary for many years. He knew many of the great figures of Kew very well indeed—Sir W. T. Thiselton-Dyer, George Nicholson, William Watson, William Dallimore and William Jackson Bean, to mention only a few. He supervised the planting of many trees which have since grown into very fine specimens—e.g. the lovely group of three conifers near the lily pond, fine trees of the bigeneric hybrid, *Cupressocyparis leylandii*.

His interest in the Mutual Society also goes back to the very early days. Reference to the 1901 issue (No. IX) discloses the fact that he was awarded the "Hooker" Prize for his paper on Selaginellas and Lycopods and for his share in the discussion.

Mr. E. Brown (1903) — Vice-President, 1964/66 — recently recalled these early Mutuals: "Osborn was prominent at the Mutual Society meetings which were held at that time in the Library. The seats were arranged round the sides and the Curator, William Watson, was always Chairman. Osborn was for a time Deputy Foreman of the Ferneries. At the Mutuals he wore a 'Norfolk' jacket which earned him the nickname of 'The Baron'. This name was openly used at the meetings but never outside them."

After retirement Osborn continued to take a very active interest in gardening matters, a visit to him was most interesting. He loved to recall old faces and scenes. One would quietly and respectfully listen as he pulled aside the veil of time to live once again in the Kew of "yesteryears". Love and happiness lit up his kindly face, respect and pride filled his voice as he recalled pals of old, and past scenes which had obviously to him returned to life so vividly. For the speaker the "years between" had fallen away, for the listener a true love of Kew was revealed.

This was Arthur Osborn—his long and faithful service to Kew and the Guild will always be remembered.

We send our sincere sympathies to his widow and daughter.

F. G. WALSINGHAM

We regret to give news of the death of Frank Walsingham on the 14th February, 1964. He was aged 74. He left school at the age of 15 and after serving a three-year apprenticeship at Cheals of Crawley he spent 3½ years at the Feltham Nursery of James Veitch of Chelsea.

In March, 1912, he entered Kew as a student-gardener, leaving in December, 1913, for Cairo to take up an appointment as Assistant Director of Horticulture in the Department of Agriculture. Here he worked under the late I. W. Brown who was Director of the Horticultural Section of the Ministry of Agriculture. These were great days for Kew men abroad—an indication of this may be gained by reference to page 479 of the 1920 *Journal* (Vol. III, No. XXVII). Walsingham's name appears with the names of many other well known past and present Kewites who visited Kew during the year. Again reference should be made to a passage on page 112 of the 1922 *Journal* (Vol. IV, No. XXIX)—there will be found the mention of famous Kewites who spent "a very happy evening comparing notes and recalling the days at Kew"—Walsingham's name is among them.

For ten years he advised upon growing crops and plants under the difficult conditions which prevail at times in Egypt, but in January, 1924, owing to changes in the political situation, both F. G. Walsingham and the late G. S. Crouch resigned their appointments at their own request.

His next appointment was in the U.S.A. where he secured a non-government post in Miami, Florida, in 1925, followed in 1928 by a post at the Plant Introduction Gardens, Coconut Grove Florida, where he remained until July, 1932. On this occasion he became Assistant Superintendent at the Atkins Gardens in Cuta (which was connected with Howard University), a post which he held for 24 years. Plant Introduction was one of his main responsibilities in this post and this he found of absorbing interest—in fact he declined to accept promotion when it was offered as it would have meant leaving this work.

Walsingham retired to England on 30th June, 1956, but he did engage on a five months trip to Australia and New Zealand during the winter of 1960/61. His memory will be held in great esteem for his kindness, his knowledge, his keenness for Kew and the Guild and also as one of the great band of Kewites (I. W. Brown, H. L. R. Chapman, G. S. Crouch and F. S. Sillitoe) who held the flag of Kew high in the hot endless wastes of burning sands through which the ancient, mystic Nile flows in its fertile, palm-clad, basin.

Our sympathies go out to his brother Harold on this sad occasion.

JAMES BROWN.

James Brown, a life member, aged eighty-one, died November 21st, 1963, as a result of injuries suffered in an automobile accident several months previous.

Brown was one of the older members of Kew, having entered it in April, 1903, from a previous situation at Murthley Castle, Perthshire, Scotland. He left Kew in 1905 to accept a position at Gorrddinog Gardens, Llanfairfechen, North Wales. Mr. Brown came to America in 1908 and became foreman on the estates of Mrs. R. M. Clark, Pomfret, Connecticut. It was here where this writer was born.

The year 1913 marked another change in the career of James Brown. He became curator of Boston Gardens, Smith College, in Northampton, Massachusetts. A portion of his duties was teaching field Botany. Brown's great knowledge and ability were responsible for his becoming head gardener for Professor Wilder D. Bancroft in Newport, Rhode Island, in 1916.

About ten years later, around 1926, Mr. Brown took on an even larger responsibility. He became superintendent for the Michael Van Beurens at their large show estate, "Grey Craig", in Newport.

Later Brown was superintendent for the Greenwich, Connecticut, estate of Mr. Nelson Rockefeller. Following this service he went back to Newport and cared for the estate of Colonel Samuel Nicholson until the Colonel's death.

It was in the war years, 1940, that Mr. Brown accepted a position as superintendent of Wilcox Memorial Park in Westerly, Rhode Island. He was active in this work until his death. Tributes from the citizens of Westerly have been a source of much comfort. Memorials have been given in his name to the library.

He was first and always a student of Botany. He was an authority on wild plant life in Rhode Island and the neighbouring states. He was in constant demand to organize Botany trips and to instruct students. He judged important flower shows, among the largest of which was the International Flower Show at Madison Square Gardens in New York City. How he enriched the lives of people with whom he came in contact! His daughters, Sarah Cole and this writer, were made all the richer by the love and warmth with which he shared the beauty of God's nature with them. He is greatly missed by his widow, Ruth Brown, his two daughters and five grandchildren and one great grandchild.

It can be truthfully said that James Brown put much more into the stream of life than he ever took from it.

CRISTINA DRAUDT (Mrs.)

LEON GEORGE RICHARDS.

Mr. Richards ("Ricky") passed away suddenly on the 10th February, 1964. He had always enjoyed excellent health, and his sudden death came as a great shock to his relatives and friends.

He was born in Canterbury on the 13th November, 1894, and was educated at Canterbury, Herne Bay and Whitstable where his father had market gardens and small greengrocery businesses. In World War I he served in the R.N.A.S.—later the R.A.F. where he passed for Petty Officer and qualified as an Armourer; he saw service both in France and the U.K.

After demobilisation he entered Kew in 1919, where he had experience in several departments. At the end of 1921 he was appointed by the Secretary of State for India as a Gardener in the Presidency of Fort William in Bengal, and took the post of Assistant Manager at the Government Cinchona Plantation at Munsong in E. Bengal, incidentally, being the last "Kewite" to be sent out to the Government Cinchona Plantations.

He was appointed Assistant Superintendent of the Experimental Cinchona Plantation in Burma in 1929. When it was decided to close down operations in that area a year or two later, Mr. Richards returned to Bengal, serving at Kashem, Munsong, Burmiak and Sangseer. On re-organisation and extension of the Bengal Cinchona department in 1941 he was appointed Manager of the Mungpoo Division and served in that capacity until he retired.

"Ricky", during his service in Bengal and Burma, played no small part in helping to train the Indian Staff who were eventually to manage the Plantations when India gained her Independence in 1947. To quote a letter from one of the Indian staff, written to him on his retirement, "I owe a great deal to you, Sir, for your advice and teachings, which I shall remember throughout my life".

The War years (1939-45) were exceptionally difficult in dealing with large native labour forces, due to the food shortages and other changing conditions. "Ricky's" well known humour, kindness and understanding of the problems of the lower paid manual worker at that time were of much assistance to all who had the pleasure of working with him. He was also well known as a sportsman and introduced sport to the plantation workers; amongst his activities were football and cricket, and many plantations had three or four teams. "Ricky" retired in 1951 and went to live in Ickenham, where his time was mostly spent in the making of a garden and its tending, which he did until the day of his death. He leaves a wife and a married son to mourn his passing.

H. THOMAS (1911).

C. A. HEMMING

Many Old Kewites, particularly those who were Trainees under the Ex-Servicemen's Training Scheme after the war will be saddened to learn of the passing of this extremely likeable personality, known affectionately as "Old Hemming" at the age of 80. (Then he certainly was not old, while his outlook and approach were progressive and youthful).

Hemming started his early horticultural training under the head gardener of G. de L. Bush, Esq., Standish House, Stonehouse, Glos. He followed this in 1903 when he moved south to the gardens of W. Winans, Esq., Surrenden Park, Pluckley, Kent. Here he had charge of the vineries, peaches and various other plants, a post which he held for three years. Two positions of Foreman followed—at Gatton Park, Merstham, Surrey, the home of Alfred Benson, Esq., and at Mabledon Park, Tonbridge, Kent, owned by T. Deacon, Esq., a Banker.

In 1914 he joined the R.A.M.C. and served in France throughout the war. On being demobilised, Hemming journeyed to the United States, where he was employed in several large establishments as manager—some of these were: Wertz, Florists, Inc., Roanoke, Va.; Lodders Greenhouses, Inc., Cincinnati, Ohio; and Carrick Greenhouses, Inc., Pullburgh, Pa.

So to 1932 when he married and returned to Roehampton to manage the Vernon Brothers' Nurseries for nine years. At the end of the last war he joined the Staff at Kew where he took the post of Training Officer under the Vocational Training Scheme. He loved his work with the Kew trainees and we became attached to him and often sought his advice. This was always good and sound—he was so understanding and tried his utmost to help us make up for the "lost" years. Evidence of the deep respect which he gained from us all, is that many often wrote to him from "far away" places long after they left Kew. Many, many genuine people have worked hard and well at Kew and C. A. Hemming is among them.

He spent thirteen years of happy peaceful retirement in Stour Row Village, Shaftesbury, Dorset. We send our deepest sympathies to his widow, Mrs. Julia M. Hemming, and we wish her well in her quarter acre garden.

MISS EDNA MARY GUNNELL, N.D.H.

It was our sad duty to publish the death of Miss E. M. Gunnell in our last issue—as stated she died on 16th February, 1963.

Miss Gunnell came to Kew from the University College, Reading, in September, 1900, where she attended a two-year course which in those days, was made up of one year's study at the

College with a following year in practical training in recognised gardens. (The course included instruction in Horticulture, Soils and Manures, Chemistry, Botany, Geology, Physical Geography, Meteorology, Entomology and Book-keeping). Successful candidates were awarded a Certificate in Horticulture given by the Oxford and Reading Joint Committee.

She left Kew in September, 1901, and after holding a post at a School of Horticulture, Torquay, for several years, a move was made to St. Petrod School, Paignton, as Horticultural Instructor. Various posts in Germany followed and a very good account of her own experiences in this field may be found on p. 233 of *K.G.J.* (1915), Vol. III, No. XXII.

Further details of Miss Gunnell's career may be found on p. 23 of *K.G.J.* (1921), Vol. IV, No. XXVIII. It is interesting that she spent one year as Lecturer at Swanley Horticultural College—over the years so many were to travel from Kew to Swanley or, in reverse, from Swanley to Kew. From Swanley to the Pennsylvania School of Horticulture, Ambler, U.S.A., and then back to Devon, where she became the first woman to hold the post of Horticultural Superintendent for that county.

Throughout her life Miss Gunnell took a very great interest in the education of women in horticulture. There is at least one instance on record where she gave voluntary but personal postal tuition to a Land Girl before she went to Swanley in 1947.

Respectfully we send our sympathies to the only relative known to us, her nephew, Mr. Anthony Gunnell.

FRANK BIRKINSHAW

News of Birkinshaw's death came only in time for a brief announcement for the 1963 *Journal* but we asked for more information in order to publish a suitable obituary for this late member and others.

Mr. J. Lambourne (1912) has kindly sent the following, to quote: "As he was a great friend of mine I felt that I might have the information you require. We lived together in the same lodgings at Kew and we were also colleagues in the Department of Agriculture, Federated Malay States.

"Frank Birkinshaw was born on the 4th February, 1887 and died of lung cancer in a chest clinic in Bournemouth on 5th November, 1963, after seven weeks of very painful illness. He left a wife, a son and three daughters, and in addition a number of grandchildren.

"I left Kew in April, 1912, and Birkinshaw in August of the same year. I went to Malaya and he to the West Indies where, in

St. Vincent, he held the appointment of Assistant Agricultural Superintendent. He worked there under William N. Sands (1899), another Old Kewite, until January, 1915, when he was appointed Agricultural Instructor in Mauritius. This was extended in October of the same year when he became Inspector of Co-operative Credit Societies. He came to Malaya as Assistant Agricultural Inspector in February, 1920, when I met him again. He served as an Inspector in Perak until September, 1925, when the title was changed to Agricultural Field Officer. He worked in this capacity in Perak, Selangor and Province Wellesley and Penang. At times he acted as Chief Field Officer and he was eventually confirmed in that appointment.

“He retired after having spent several years in Changi Internment Camp during the war where he nearly starved to death. I met him again when he came home after the war and we kept in touch until his death.”

Thank you for this information—we can only add that Birkinshaw entered Kew on 25th April, 1910, after having trained for nine years which included a few months at the famous nurseries of James Veitch & Sons, Chelsea.

We send sincere sympathies to Mrs. Birkinshaw and her family.

YOSHIO OKAMI.

It is with deep regret that we record the passing of Mr. Yoshio Okami at his home at Negishi, Urawa-shi, Saitama-ken, Japan, on 30th November, 1963, at the age of 78.

After his education at the Seisaku School he entered the Imperial Household Agency, Tokyo, in March, 1907. From here, three years later he was sent to Europe to study horticulture and thus entered Kew. Okami returned to the Imperial Garden at Shirjuku, Tokyo, where he held the post of head of the orchid house until 1945. In April, 1946, he was appointed as lecturer in horticulture at Keisen Women's Junior College, Tokyo, where he was held in high esteem as a lecturer and as a pious Christian.

In 1935 he published a book entitled *The Culture of Orchids* and was also a joint author of other gardening books. His last book *The Kinds and Culture of Orchids* was published after his death.

We tender our sympathy to his widow and relatives.

KAN YASHIRODA (1926).

ERNEST GEORGE CREEK

We regret to give news of the passing of this grand Old Kewite at the age of 88.

Creek entered Kew after eight years of work in large private gardens in East Anglia. During this period he served under his father who was head gardener at Depperhaugh, Scole, Norfolk. He was very keen to learn the theoretical part of horticulture and attended evening classes in Botany at Ipswich.

From Kew he became head gardener at Westerfield House, Ipswich. At this time he was Secretary of the Ipswich Gardeners' Association. Later he became Assistant Instructor of Horticulture for East Suffolk until 1912 when he was made Horticultural Instructor for West Suffolk.

One of his hobbies was bee keeping. He also held offices at both St. Peter's Church and St. Mary's Church in Bury St. Edmunds. He died at the home of a daughter at Orpington, Kent.

We send our very sincere sympathies to his widow, two sons and three daughters.

FREDERICK GEORGE PRESTON, M.A., V.M.H., A.H.R.H.S.

It is with great regret that we record the death, on 8th January, 1964, at the age of 81, of Mr. F. G. Preston, who was President of the Kew Guild for the year 1949-50. From the day he entered Kew as a student-gardener in August, 1904, he had the welfare of the Gardens very much at heart and he was a loyal and active supporter of the Guild during the whole of his life.

Mr. Preston was born at Warborough, in Oxfordshire, on 23rd July, 1882, and, before entering Kew, gained his early horticultural experience in private gardens in the neighbourhood of his birth place. At Kew he soon made his mark, both horticulturally and in other ways. He was Secretary of British Botany Club and the Mutual Improvement Society, and Captain of both the cricket and football teams. He served as sub-foreman in the Herbaceous Department for two-and-a-half years before leaving in April, 1909, to take up the position of Outside Foreman at the University Botanic Garden, Cambridge. At this Garden he spent the rest of his working life, retiring as Superintendent in 1947. When Mr. Preston went to Cambridge, the famous R. I. Lynch was Curator and there was no scientific Director. In 1919, when Mr. Lynch retired, Mr. H. Gilbert-Carter was appointed the first Director, with Mr. Preston as Superintendent, and this happy "partnership" presided over the Garden for nearly thirty years, including the very difficult period of the second world war. The Cambridge Garden certainly owes a great debt to his skill and devoted care during this long period—a debt recognized by the University when, on his retirement, he was created an Honorary Master of Arts. Recognition also came from The Royal Horticultural Society, who appointed him A.H.R.H.S. in 1936, and in 1938, gave him their highest award, the V.M.H.

Mr. Preston did not by any means confine his activities to the Cambridge Garden, but took a prominent part also in the wider world of British horticulture. He was for many years a valued member of several committees of The Royal Horticultural Society, especially those concerned with herbaceous and alpine plants, and was in much demand as an examiner for the N.D.H., the B.Sc. (Hort.), and other horticultural examinations. He was also a most successful judge at Chelsea and other R.H.S. Shows. At Cambridge, he took a great interest in local horticultural affairs outside the Botanic Garden, and was for many years a member of the City's Tree and Shrub Committee.

Mr. Preston was a prolific writer on horticultural subjects. His book, *The Greenhouse*, was published in 1951; he contributed to the *R.H.S. Dictionary of Gardening*, and there are many articles from his pen in *The Gardener's Chronicle* and other horticultural periodicals. He wrote an account of the history of the Cambridge Garden in the *R.H.S. Journal* for 1940. Mention must also be made of his work during the last war for The Royal Horticultural Society, when he visited many collections of glasshouse plants, advising on their national importance in relation to fuel allowance.

After his retirement in 1947, Mr. and Mrs. Preston remained near Cambridge and, as long as their health permitted, kept in close touch with the Botanic Garden and with Cambridge "Old Boys"; Mr. Preston was elected the first President of the Botanic Garden Association when it was founded in 1952.

Unfortunately, during his last years, Mr. Preston suffered much from ill-health, but he remained alert and cheerful to the end, occasionally touring, in a car, the Garden for which he had done such great work in the past. He will be greatly missed by the many friends he made during his long and distinguished career in horticulture. We extend our sincere sympathy to Mrs. Preston and her family.

J. S. L. GILMOUR (1946),

Director, University Botanic Gardens, Cambridge.

We also regret to record the death of the following :--

Mr. D. G. McIver (1909).

Mr. A. G. Thornton (1922).

Mr. M. McNeill (1899).

Mrs. Woodrow (1944) (Miss B. Watts).

Mr. L. Gentil (1897).

Mr. F. L. G. Derwall.

Mr. W. Mac. Laggon.

Mr. E. G. Johansson (1928).

Mr. M. Free (1912).

Mr. J. Watts (1910).

Mr. G. Gough (1934).

Mr. L. Stenning (late Curator).

We intend to publish suitable obituaries for these in the next issue of the *Journal* but we would like more information on all except Mr. M. Free and Mr. L. Stenning.

We would also like information upon the undermentioned, some of the list of deceased Kewites which we published last year :—

Mr. L. B. J. Miller (1933).

Mr. G. Hopkins.

Mr. N. K. Clarke (1909).

Mr. J. Mackay (1901).

Here is a tribute from Mr. Matt Nicholls (1897) dated 2nd June, 1964 :—

“During the past year several Kewites have passed away, amongst them one of my dearest friends, George Preston. It is hard to believe that one with so lovable disposition and such an upright character is no more, for he was all a friend should be, unassuming and genuine. His passing is a grievous loss, yet life is richer and sweeter through many having known him, truly he was loved most by those who knew him best.”

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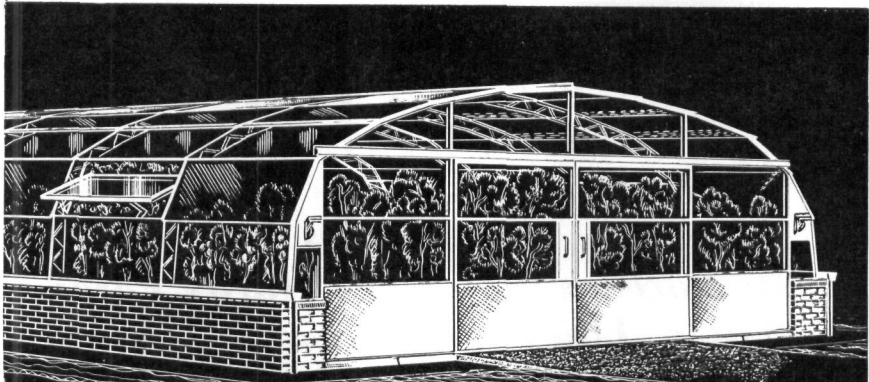
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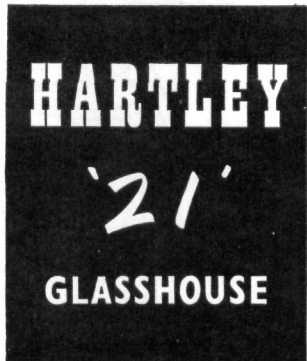
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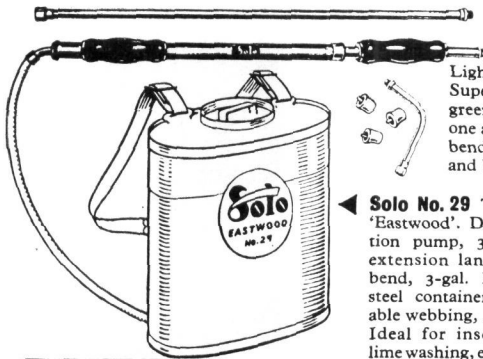
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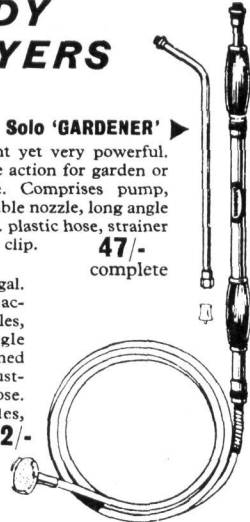
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		Entered Kew
DIRECTOR'S OFFICE		
Director	Sir George Taylor, D.Sc., F.R.S.E., F.L.S., V.M.H.....	1956
Deputy Director, Keeper of Herbarium and Library (D.C.S.O.)	†† C. E. Hubbard, O.B.E., D.Sc., F.L.S.	1920
Secretary (Chief Executive Officer).....	R. W. King, D.F.C.....	1959
Higher Executive Officer.....	J. G. Hicks.....	1964
Executive Officer	R. Fender.....	1958
" "	S. J. Williamson.....	1959
Clerical Officer/Secretary	Mrs. A. M. E. Kendall.....	1947
Clerical Officer	G. F. Lamb.....	1951
" "	G. Calcutt.....	1959
" "	H. D. Barlow.....	1961
" "	F. A. Cole.....	1961
" "	Mrs. S. M. Shury.....	1960
" "	Miss I. C. McFarlane.....	1959
" "	Mrs. L. A. Kell.....	1948
Clerical Assistant	Mrs. R. E. Fairbanks.....	1962
" "	Mrs. F. I. Hughes.....	1962
" "	Mrs. F. Upton.....	1964
Shorthand Typist	Mrs. M. F. Elsey.....	1964
Typist	Mrs. M. Longman.....	1947
Telephone Operator.....	Mrs. L. M. Jopling.....	1964
HERBARIUM AND LIBRARY		
Deputy Keeper (S.P.S.O.)	E. W. B. H. Milne-Redhead, T.D., M.A., F.L.S.....	1929
Senior Principal Scientific Officer.....	R. Melville, B.Sc., Ph.D., F.L.S. ...	1934
" " " "	R. W. G. Dennis, B.Sc., Ph.D.....	1944
Principal Scientific Officer.....	N. Y. Sandwith, M.A., F.L.S., F.R.G.S.....	1924
" " " "	A. A. Bullock, B.Sc., F.L.S.....	1929
" " " "	J. P. M. Brenan, M.A., B.Sc., F.L.S.	1948
" " " "	* J. R. Sealy, B.Sc., F.L.S.....	1927
" " " "	R. D. Meikle, B.A., LL.B., F.L.S.	1947
" " " "	D. A. Reid, B.Sc., Ph.D.....	1951
Senior Scientific Officer	W. D. Clayton, B.Sc., A.R.C.S., F.L.S.	1958
" " " "	F. N. Hepper, B.Sc., F.L.S.....	1950
" " " "	L. L. Forman, B.Sc., F.L.S.....	1951
" " " "	Miss F. M. Jarrett, M.A., Ph.D., F.L.S.	1959
Scientific Officer	P. F. Hunt, M.Sc., F.L.S.....	1959
" "	E. R. Guest, B.Sc., A.R.C.S., A.I.C.T.A. (Iraq).....	1959
" "	C. Jeffrey, B.A.....	1957
" "	R. M. Polhill, B.A., F.L.S. (M.O.D.)	1961
" "	D. R. Hunt, M.A., A.R.C.O.....	1961
" "	A. R. Smith, B.Sc., A.L.S.....	1962
" "	G. Ll. Lucas, B.Sc., F.L.S. (M.O.D.)	1963
" "	R. K. Brummitt, B.Sc., Ph.D. (Fl. Zamb.)	1963
Botanist (Bentham-Moxon)	H. K. Airy Shaw, B.A.....	1925
Principal Research Fellow.....	B. Verdcourt, B.Sc., Ph.D., F.L.S...	1964
Senior Research Fellow.....	D. M. Dring, B.Sc., Ph.D., F.L.S...	1964
Senior Experimental Officer.....	P. G. Taylor, F.L.S.....	1948

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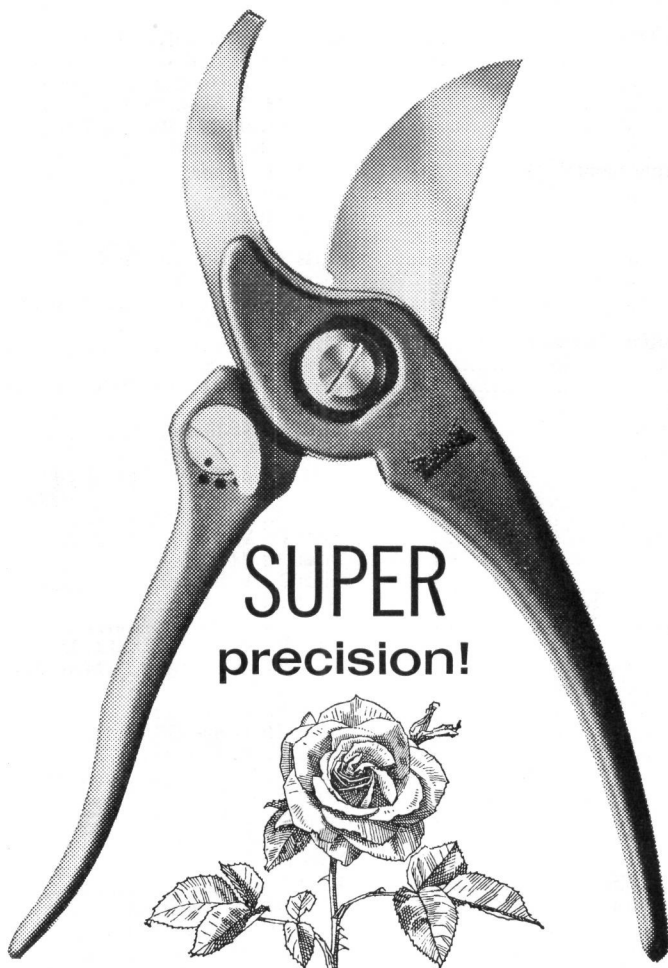
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Experimental Officer.....	J. K. P. Kennedy-O'Byrne, F.L.S. 1948
" "	J. R. Tennant, B.Sc., F.L.S. (M.O.D.) 1956
" "	Miss S. S. Hooper, B.Sc., F.L.S.... 1952
" "	Miss M. I. Skan, M.B.E..... 1919
" "	D. Philcox, M.I.Biol., F.L.S..... 1959
" "	C. C. Townsend..... 1959
Assistant Experimental Officer.....	M. J. S. Sands..... 1959
" " "	M. Evans
" " "	D. V. Field, B.Sc. 1960
" " "	D. N. Pegler, B.Sc..... 1960
" " "	Miss J. K. Bowden, B.Sc., F.L.S.... 1949
" " "	Mrs. D. E. M. Evans..... 1959
" " "	Mrs. D. L. Smith, B.Sc. (Miss D. L. Wood) (M.O.D.)
Senior Scientific Assistant.....	Miss J. Forster..... 1947
" " "	Miss I. Blewett..... 1941
" " "	Mrs. J. L. M. Pinner (Miss Fletcher) 1952
Scientific Assistant	J. L. Gilbert..... 1956
" "	Miss P. Halliday..... 1947
" "	Miss J. McEwan..... 1956
" "	Mrs. P. Z. Kennedy-O'Byrne (Cyprus) 1955
" "	Miss A. C. Uchlein..... 1955
" "	Miss D. Moscoff (M.O.D.)..... 1957
" "	Miss V. Mann..... 1958
" "	Miss T. A. Bence..... 1958
" "	N. H. Sinnott..... 1963
" "	Mrs. M. J. Bowen-Jones..... 1963
" "	Mrs. F. Neate (P/T, M.O.D.)..... 1963
" "	Mrs. D. M. Bridson (Miss Sheppard)
" "	Miss S. J. Willsher..... 1963
" "	S. A. Renvoize (Fl. Zamb.)..... 1963
" "	Miss V. A. Carder..... 1955
" "	Miss C. J. Hellet (Bentham Moxon) 1964
" "	Miss S. E. Horton..... 1964
" "	Miss S. E. Lawton..... 1964
" "	Miss V. F. Mulford..... 1964
" "	Miss H. Wood..... 1964
Senior Photographer.....	R. R. Zabeau..... 1956
Leading Illustrator.....	Miss M. A. Grierson..... 1960
Librarian	R. G. C. Desmond, F.L.A..... 1961
Assistant Librarian	R. Davidge, B.A., A.L.A..... 1958
" "	Miss K. E. W. Rattue, A.L.A..... 1961
" "	Miss G. M. Grainger..... 1964
Library—Clerical Officer.....	Miss M. Kierans..... 1934
" " "	Mrs. P. G. Warris..... 1961
" " "	Miss H. M. White..... 1959
" " "	Mrs. E. J. Everett..... 1963
" " "	Mrs. K. E. Mortimer..... 1964
Clerical Assistant	Mrs. D. G. Marsh..... 1962
Senior Preparer.....	Mrs. H. Wootton..... 1949
Preparer	Miss D. J. Bowman..... 1953
"	Mrs. L. C. F. Glenister..... 1956
"	Mrs. D. J. Mitchell..... 1954
"	Mrs. M. W. Glover..... 1960
"	Mrs. H. Dzilna..... 1954
"	Mrs. Q. V. Skan..... 1959
"	Miss I. L. Taylor..... 1959
"	Mrs. V. E. Baker..... 1959
"	Mrs. D. B. Boaler..... 1962



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 Senior Scientific Officer.....
 Scientific Officer.....
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 Principal Scientific Officer (Quarantine Work).....
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 Museum Craftsman.....
 Clerical Assistant.....
 Scientific Assistant.....
 Typist.....

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 Assistant Curator.....
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 Supervisor of Studies.....
 Foreman Gardener.....
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P. Heawood.....
 Miss C. Newall.....
 D. D. Cobb.....
 Miss G. M. Pring.....
 Mrs. I. I. Scott.....
 Mrs. E. A. M. Shapley.....
 Miss G. M. N. Briggs.....
 Mrs. B. F. Saunders.....
 Miss I. M. Chambers.....
 Mrs. M. Brind.....
 Miss M. E. Long (M.O.D.).....
 Miss V. A. Cole.....
 Mrs. B. Powney (M.O.D.).....
 Miss I. E. Lightman.....
 Miss E. N. Attwood.....
 Miss P. A. Godfrey.....
 W. A. Mullins.....

C. R. Metcalfe, M.A., Ph.D., F.L.S. 1930
 K. Jones, B.Sc., Ph.D., F.L.S. 1960
 Miss M. Y. Stant, B.Sc., Ph.D. 1950
 D. F. Cutler, B.Sc., F.L.S. 1962
 C. J. Marchant, B.Sc., Ph.D. 1962
 Miss M. Gregory, B.A. 1961
 F. Richardson 1934
 J. B. Smith, B.Sc. 1962
 Miss D. M. Catling 1950
 Mrs. M. Haylock (Miss M. Thompson) 1963
 Miss A. J. Farrer 1964
 Miss B. M. Young 1963

F. N. Howes, D.Sc. 1925
 T. A. Russell, B.Sc., A.R.C.S. 1954
 A.I.C.T.A., Dip. Agric. 1959
 Miss R. C. E. Angel, B.Sc. 1960
 Mrs. B. Christopher, N.D.D. 1960
 A. J. Parkes 1964
 Mr. B. O'Dowd 1963
 R. E. Lycett 1951
 Miss V. Horwill 1951

*†L. Stenning, M.B.E., A.H.R.H.S. 1925
 †S. A. Pearce, M.B.E., A.H.R.H.S., F.Inst.P.A. (Arboretum North) 1928
 †G. H. Preston, F.L.S. (Herbaceous) 1934
 *†S. W. Rawlings, A.R.P.S. (Tropical) 1936
 †J. E. S. Souster, N.D.H., F.L.S. (Temperate) 1941
 †G. E. Brown, N.D.H. (Arboretum S.) 1946
 G. J. E. Yates, N.D.H. (Decorative) 1961
 †L. Pemberton, N.D.H., Dip.Arb. 1952
 G. H. Anderson, B.E.M. (Palm House) 1940
 H. J. Jackman (Decorative) 1949
 W. Bridle (Temperate House Pits) 1946
 H. Bruty, B.E.M. (Ferneries-Tropical) 1946
 P. G. Shutler (Arboretum) 1946
 E. W. Macdonald (Succulents-Tropical) 1950
 †A. J. Hale (Temperate House) 1955

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" "	†A. G. Cook (Herbaceous and Rock Garden—Prop.)	1948
" "	†R. I. Beyer (Alpine and Herbaceous)	1959
" "	R. J. Sadler (Arboretum N.)	1951
" "	†A. D. Schilling, Dip.Arb. (Arb. Prop.)	1959
" "	†J. B. Simmons, N.D.H. (Tropical Prop.)	1958
" "	A. D. Stevens	1956
Shorthand Typist	Miss A. G. Barton.....	1953
Storekeeper	W. E. Farmer.....	1960
Bird Keeper and Pests Operator.....	H. Allen	1958
Seed Collector	J. Mateer	1952
" "	J. M. Latto.....	1957
Propagators	F. L. Burnell.....	1946
" "	K. Hobbs.....	1961
" "	J. R. Woodhams.....	1959
Gardener Grade I.....	C. W. Preston.....	1922
" "	C. H. Bowditch.....	1958
" "	H. Hockley	1942
" "	F. H. Jackman.....	1940
" "	J. Slater.....	1945
" "	†R. Rule.....	1956
" "	J. Prudden	1956
" "	B. J. W. Bernard.....	1960
" "	P. M. Lambie.....	1961
" "	M. J. Harrington.....	1960
" "	E. A. Pooley.....	1935
" "	Miss G. Dawson.....	1959
" "	R. Laws.....	1962
" "	P. Spedding.....	1961
" "	R. L. Adams.....	1964
" "	P. A. Gooding.....	1960
" "	D. W. Hague.....	1962
" "	E. A. Paulowicz.....	1958
" "	R. E. Tear.....	1963
CONSTABULARY		
Sergeant in Charge.....	W. Leaver, B.E.M.....	1935

STUDENT GARDENERS.

Name	Entered Kew	Name	Entered Kew
R. Davenport.....	1963	P. Kilby.....	1963
C. M. Duncan.....	1963	F. A. Overland.....	1963
J. N. Fisher.....	1963	D. F. Pearson.....	1963
H. J. Fliegner.....	1963	C. W. Roome.....	1963
D. S. Harris.....	1963		

STUDENT GARDENERS OF THREE-YEAR COURSE

(Commenced 7th October, 1963)

A. V. H. Barber	C. E. B. Gordon	J. E. M. Jones	K. Robinson
A. L. Barnes	C. Hart	M. K. Lee	A. P. Turner
R. D. Bowen	P. D. M. Hitchin	J. Mitchell	D. Waddell
R. K. Edwards	B. F. Howard	J. O'Connor	P. E. Wilson
J. Endall	R. Ince		

(Commenced 5th October, 1964)

J. Beswick	G. M. Gaskin	M. Hutchison	A. R. Smith
W. E. Bessier	H. N. Goddard	A. R. Keevil	E. Saxon
D. P. Coleman	J. P. Goodall	B. A. Nash	E. Scarr
M. J. Dawes	G. N. Graham	B. J. Penberthy	M. J. Tomlinson
B. V. Frankland	M. Hart	A. Rich	C. P. Wood

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PREVIOUS POSITIONS OF STUDENTS ON THREE-YEAR COURSE, commenced 5th October, 1964

J. Beswick	Warrington Parks Department.
W. E. Bessen	Kent Farm and Horticultural Institute.
D. P. Coleman	Falkirk Parks Department.
M. J. Dawes	Brighton Parks Department.
B. V. Frankland	Wellingborough Parks Department.
G. M. Gaskin	Stafford Education Committee.
H. N. Goddard	Royal Botanic Gardens, Kew.
J. P. Goodall	Portsmouth Parks Department.
G. N. Graham	Kingston-upon-Hull Parks Department.
M. Hart	Leeds Parks Department.
B. A. Nash	Crawley Parks Department.
B. J. Penberthy	Exeter University.
A. Rich	Improver, Kew, from Cardiff Parks Department.
A. R. Smith	Improver, Kew, from Leicester University Botanic Gardens.
E. Scarr	Improver, Kew, from Port Elizabeth Parks Department, S. Africa.
M. J. Tomlinson	Folkestone Parks Department.
C. P. Wood	Writtle Farm Institute.
E. Saxon	Stockport Parks Department.
A. R. Keevil	Improver, Kew, from Swansea Parks Department.
M. Hutcheson	Improver, Kew, from Falkirk Parks Department.

STUDENTS COMPLETING TWO-YEAR COURSE on 6th April, 1964

A. Armony	London University Student.
P. H. Bridgeman	Technical Assistant, Bexley Parks Department.
J. D. Hellewell	Student, The Grotto, Institute of Parks Administration.
Miss J. A. Hyde-Trutch	Married to Mr. C. Popham (see above).
A. D. MacArthur	Returned to New Zealand.
C. B. Pead	Student, The Grotto, Institute of Parks Administration.
D. N. Pierce	Hammersmith Parks Department.
G. Spate	Student, The Grotto, Institute of Parks Administration.
J. H. S. Winter	Horticulturist, R.S.M. Queen Elizabeth.
J. R. Woodhams	Propagator, Royal Botanic Gardens, Kew.

POSITIONS TAKEN BY STUDENTS COMPLETING TWO-YEAR COURSE, 2nd October, 1964

M. Bentall	Student, The Grotto, Institute of Parks Administration.
R. F. Deans	Landscape Assistant, Messrs. Hillier & Sons, Winchester.
Miss M. J. Dennis	Butchers Nurseries, Croydon.
Mrs. K. M. Dodge	New York Botanic (Bronx Gardens).
M. H. Dodge	New York Botanic (Bronx Gardens).
J. E. Elsley	Royal Botanic Gardens, Kew.
R. Marshall	National Advisory Service.
C. Popham	Foreman, University of Essex, Wivenhoe Park, Colchester.
B. J. Salter	Student, The Grotto, Institute of Parks Administration.
R. Trewinnard	

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KEW GUILD GENERAL ACCOUNT, 1964

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c.	479 12 2	Hon. Secretary's expenses	11 6 7
Annual subscriptions and arrears	300 5 10	Hon. Editor's expenses	7 19 11
Donations	6 13 10	Hon. Treasurer's expenses	15 6 0½
Payments from Journal advertisers	79 2 3	Payment of 50% Christmas Card profit to Student Gardeners' Association	9 0 10
Sale of extra Journals	5 12 1	Postage of Journals	15 4 7
Sale of Colour Prints	0 3 6	Typist's expenses	4 10 0
Sale of Christmas Cards	45 8 11	Christmas Cards and Envelopes	27 7 3
Interest on Post Office Savings Bank	14 3 10	Wreaths for 4 deceased Kewites	10 18 0
Profit from sale of Ties	5 5 7	Miscellaneous Stationery	13 8 4
Profit from Annual Dinner	0 5 9	Insurance of Proudlock Cups and Letters Patent (1963 and 1964)	1 19 0
Advance payment for 1965 Guild Dinner	3 0 0	Engraving of Proudlock Cups	2 2 0
Dividends—£26 6s. 3d. 3¼% War Stock	0 18 4	Cost of Printing 1963 Journal... ..	343 15 0
Dividends—£500 3% War Savings —Sir A. W. Hill's bequest	15 0 0	Journal envelopes	5 7 0
Dividends—£220 4¼% Defence Bonds—W. H. Judd's bequest	9 18 0	A.G.M. expenses	4 6 10
Dividends—£210 3¼% Defence Bonds (Jubilee Fund)	7 7 0	Solicitor's fee	92 12 0
Dividends—£10 4% Defence Bonds (Jubilee Fund)	0 8 0	4 Guild Car Badges in stock	7 0 0
Dividends—£295 3% Savings Bonds (Jubilee Fund)	8 17 0	Payment to subsidise Proudlock Fund	20 0 0
Dividends—£395 4¼% Defence Bonds (Jubilee Fund)	17 15 6	Payment to subsidise Matilda Smith Fund	10 0 0
Dividends—£10 4¼% Defence Bonds (Jubilee Fund)	0 9 0	Balance in Post Office Savings Bank	316 7 11
Dividends—£165 5% Defence Bonds (Jubilee Fund)	8 5 0	Balance in Barclays Bank	78 16 4
Dividends paid on £165 5% De- fence Bonds outstanding from 1963	2 15 0	Cash in hand	14 10 7½
One donation to Jubilee Fund	1 7 0	Bank expenses	0 15 4
	£1,012 13 7		£1,012 13 7

KEW GUILD CAPITAL ACCOUNT

LIABILITIES	£ s. d.	ASSETS	£ s. d.
Life subscribers:—		£300 in Post Office Savings Bank	300 0 0
100 at £1 at half rate ...	50 0 0	£26 6s. 3d. in 3½% War Stock...	26 6 3
101 at £2 at half rate ...	101 0 0	£500 in 3% War Savings—Sir	
80 at £3 3s. 0d. at half rate...	126 0 0	A. W. Hill's bequest ...	500 0 0
8 at £5 5s. 0d. ...	42 0 0	£220 in 4½% Defence Bonds—	
Assets exceed liabilities ...	923 10 1	W. H. Judd's bequest ...	220 0 0
		Valuation of Journals in stock ...	117 7 6
		Balance in Barclays Bank ...	78 16 4
	<u>£1,242 10 1</u>		<u>£1,242 10 1</u>

WATSON MEMORIAL EDUCATIONAL FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c. ...	166 10 3	Refund of Examination Fees ...	— — —
Dividends on £100 3½% War Stock	3 10 0	Balance in Post Office Savings Bank	174 3 9
Interest on Post Office Savings Bank	4 3 6		
	<u>£174 3 9</u>		<u>£174 3 9</u>

(Assets—£100 3½% War Stock and Balance in Post Office Savings Bank, £174 3s. 9d.)

MATILDA SMITH MEMORIAL PRIZE FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c. ...	28 2 4	Prize awarded to Mr. K. Fellows	5 5 0
Dividends on £50 3% Savings Bonds	1 10 0	Balance in Post Office Savings Bank	35 2 9
Interest on Post Office Savings Bank	0 15 5		
Amount transferred from General Account ...	10 0 0		
	<u>£40 7 9</u>		<u>£40 7 9</u>

(Assets—£50 3% Savings Bonds and Balance in Post Office Savings Bank, £35 2s. 9d.)

DÜMMER MEMORIAL PRIZE FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c. ...	58 1 1	Prize awarded to Mr. J. Winter...	5 5 0
Dividends on £70 4% Funding Loan	2 16 0	Balance in Post Office Savings Bank	56 19 9
Interest on Post Office Savings Bank	1 7 8		
	<u>£62 4 9</u>		<u>£62 4 9</u>

(Assets—£70 4% Funding Loan and Balance in Post Office Savings Bank, £56 19s. 9d.)

THE PROUDLOCK PRIZE FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c. ...	3 12 1	Prize awarded to Mr. C. Pead ...	3 3 0
Dividends on £25 4% Funding Loan	1 0 0	Balance in Post Office Savings Bank	21 15 8
Interest on Post Office Savings Bank	0 6 7		
Amount transferred from General Account ...	20 0 0		
	<u>£24 18 8</u>		<u>£24 18 8</u>

(Assets—£25 4% Funding Loan and Balance in Post Office Savings Bank, £21 15s. 8d.)

THE BENEVOLENT FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1963 a/c. ...	91 12 11	Donation to an Old Kewite ...	5 5 0
Donations ...	5 5 0	Donation to Royal Gardeners' Benevolent Fund ...	5 5 0
Interest on Post Office Savings Bank	2 0 11	Balance in Post Office Savings Bank	88 8 10
	<u>£98 18 10</u>		<u>£98 18 10</u>

KEW GUILD WAR MEMORIAL FUND

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
Balance from 1963 a/c.	...	20	11	6	Nil	...	—	—	—
Interest on Post Office Savings Bank	...	0	10	0	Balance in Post Office Savings Bank	...	21	1	6
		<u>£21</u>	<u>1</u>	<u>6</u>			<u>£21</u>	<u>1</u>	<u>6</u>

KEW GUILD DINNER, 27th MAY, 1964

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
Sale of Tickets:—					125 Dinners at 21s. 6d. each	...	134	7	6
14 at £1 4s. 0d.	...	16	16	0	10% Gratuities	...	13	8	9
107 at £1 7s. 0d.	...	144	9	0	Drinks for Guests	...	5	3	0
3 Guests	...	—	—	—	200 Menu Cards	...	4	5	0
Commissionaire	...	—	—	—	250 Dinner Tickets and 1,000 Circulars	...	2	10	0
Toast Master	...	—	—	—	Commissionaire's Fee	...	1	5	0
		<u>£161</u>	<u>5</u>	<u>0</u>	Balance	...	0	5	9
							<u>£161</u>	<u>5</u>	<u>0</u>

KEW GUILD TEA, held at Kew, SATURDAY, 29th AUGUST, 1964

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
68 Members paid 4/- each for tea	...	13	12	0	To Mayfair Kitchen Caterers Ltd.—				
		<u>£13</u>	<u>12</u>	<u>0</u>	68 Teas at 4/- per head	...	13	12	0
							<u>£13</u>	<u>12</u>	<u>0</u>

KEW GUILD JUBILEE PERMANENT SECURITY FUND

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
Carried forward from 1963 a/c.	1,089	19	5		Invested—				
Donation from one Member	...	1	7	0	3% Defence Bonds	...	295	0	0
		<u>£1,091</u>	<u>6</u>	<u>5</u>	3½% Defence Bonds	...	210	0	0
					4% Defence Bonds	...	10	0	0
					4½% Defence Bonds	...	395	0	0
					5% Defence Bonds	...	165	0	0
					4½% Defence Bonds	...	10	0	0
					Cash in hand	...	6	6	5
							<u>£1,091</u>	<u>6</u>	<u>5</u>

KEW GUILD CHRISTMAS CARDS, SALES FOR 1964

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
2,014 Cards at 5d. each	...	41	19	2	2,014 Greetings Cards	...	18	10	0
279 Cards at 3d. each	...	3	9	9	2,000 White Envelopes	...	2	0	0
(last year's stock)					H.T. Block	...	2	5	0
		<u>£45</u>	<u>8</u>	<u>11</u>	Purchase Tax	...	4	12	3
					Balance	...	18	1	8
							<u>£45</u>	<u>8</u>	<u>11</u>

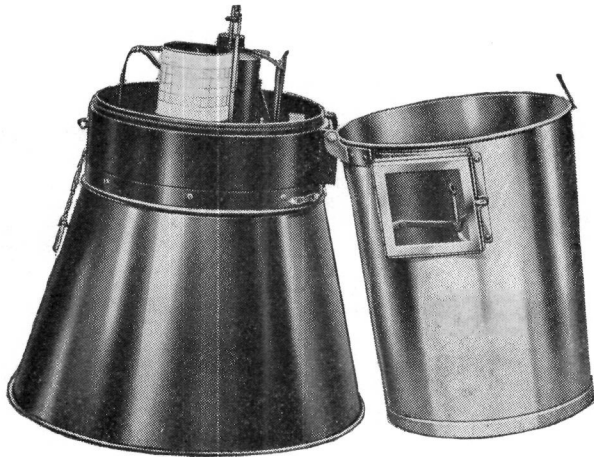
GRANT FOR ARMS AND BADGE FUND

RECEIPTS		£	s.	d.	EXPENDITURE		£	s.	d.
Balance from 1963 a/c.	...	45	1	3	Expenses	...	—	—	—
		<u>£45</u>	<u>1</u>	<u>3</u>	Balance placed in General Account in order to close the Fund	...	45	1	3
							<u>£45</u>	<u>1</u>	<u>3</u>



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ADDRESS LIST OF OLD KEWITES

*(The Names of Past Presidents are preceded by a dagger, Life Members by an asterisk)
(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.

1936. Abbing, J., Beauwea Park, P.B., Grahamstown, S.A.
 1959. Adams, R., 45 Hillcrest Road, Offerton, Stockport, Cheshire.
 1938. *Addison, G. H., 45 Cavendish Place, Eastbourne, E. Sussex.
 1957. Addison, P., N.D.H., 14 Taunton Road, Wallasey, Cheshire.
 1960. Adshead, P., Rothley, Kingsgate Road, Winchester.
 1926. Agate, C. J., 7 Beach Road, Great Neck, Long Island, N.Y., U.S.A.
 1949. Ainslie, E., 18 Park Avenue, Eastwood, Leigh-on-Sea, Essex.
 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.
 1918. *Alcock, Mrs. N. L., M.B.E., F.L.S., c/o Dr. Alcock, The Old Rectory, Sowton, Nr. Exeter, Devon.
 1962. Aldous, J., 15 Penn Road, Stevenage, Hertfordshire.
 1946. Allen, Miss B. (See Mrs. F. Christopher).
 1948. Allen, F. H., Coombe Villa, Wotton-under-Edge, Glos.
 1961. Allen, J., 21 Shepherds Walk, Cove, Farnborough, Hants.
 1930. Allison, B. W., D. Parks Dept., Salford, Lancs.
 1911. *Allt, W. S., E. Market Street, Hyde Park, N.Y., U.S.A.
 1956. Alphonso, A. G., B.G., Singapore, 10, S.S.
 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.
 1956. Andrews, B. R., Park Dept., City Hall, Edmonton, Alberta, Canada.
 1947. Andrews, R. H., 67 Chiltern Avenue, High Wycombe, Bucks.
 1922. *Andrews, W. G., 15 Lindsay Avenue, Levenshulme, Manchester, 19.
 1962. Anwyl, R. B., 234 Abbotsbury, Kings Beach, Pagham, Sussex.
 1954. Appleby, J., 53 Rathbone Road, Wavertree, Liverpool, 15.
 1964. Armony, A., 12 Queens Mansions, 230 Westend Lane, London, N.W.6.
 1947. *Armstrong, C. E., N.D.H., H.L., Kesteven Farm Inst., Caythorpe Court, Nr. Grantham, Lincs.
 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), 145 High Street, Harston, Cambridge.
 1956. Ast, R., Duggelistrasse, 9, Cham/Z.G., Switzerland.
 1931. Atkins, L. G., N.D.H., 14 Wharfedale Drive, Fosse Estate, Newark Road, Lincoln.
 1958. Atkinson, Miss A. L. M., N.D.H., Agricultural Education Office, Bridge House, Bakewell, Derbs.
 1960. Atkinson, G., Kew Cottage, Calstock Road, Gunnerslake, S.E. Cornwall.
 1954. Attenburrow, D. C., c/o D. of Agriculture, P.O. Box 338, Nairobi, Kenya.
 1950. Attwood, C. A., Bel-Air, Ulgham, Morpeth, Northumberland.
 1910. *Aubrey, A. E., 83 Newbridge Street, Wolverhampton, Staffs.
 1946. Avery, Edwin, 2 Newport Road, Barnes, S.W.13.
 1939. *Aves, J. J., D.S., P.O. Box 1454, Parks Dept. Pretoria, S.A.
 1935. Bachelor, P. L., Glenchairn, Dover Ridge Avenue, Carlton, Nottingham.
 1906. *Badgery, R., 47 King's Ash Road, Paignton, Devon.
 1920. *Baker, E., The Myrtles, Bucknells Lane, Yarston, Herts.
 1947. Baker, M. E., 25 Springfield Road, Bury St. Edmunds, Suffolk.
 1939. *Balch, R. W., N.D.H.(N.Z.), A.S. of Reserves, 32 Montague Road, Dunedin, New Zealand.
 1961. Ballard, F., B.Sc., A.R.P.S., 24 Grove Park Road, Chiswick, London, W.4.
 1961. Banbury, J. N., 20 Oxford Street, Woodstock, Oxford.
 1908. *Band, R., P.O. Box 524, Accra, Ghana.

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 15s. (Student Gardeners 10s.)

- (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.

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 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 Treasurer, and Honorary Editor shall be elected annually at the Annual General Meeting. One Vice-President shall be elected annually at the Annual General Meeting and shall hold office for two years. Any vacancy among the officers shall be filled as soon as possible by co-option by the Committee, and any person so co-opted shall hold office until the conclusion of the following Annual General Meeting.
- (b) Four ordinary Committee Members (three of whom shall be Old Kewites) shall be elected each year and shall hold office for four years. They shall not be eligible for re-election for at least twelve months after the end of their term of office. Any casual

vacancy on the Committee shall be filled at the next Annual General Meeting, the member elected completing the term of office of the member whom he has replaced. The Student Gardener representatives shall be elected annually by the Student Gardeners.

- (c) One Honorary Auditor shall be elected each year and shall hold office for two years.
- (d) Candidates for election as officers or ordinary Committee members or Auditors may be proposed by any member of the Guild provided that the names of candidates be sent in writing to the Honorary Secretary at least twenty-eight clear days before the Annual General Meeting.

Meetings.

- (11) The Annual General Meeting shall be held at Kew on the last Saturday in August. 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.

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"What a pity flowers can utter no sound. A singing rose, a whispering violet, a murmuring honeysuckle—oh, what a rare and exquisite miracle these would be."—*Beecher*.

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