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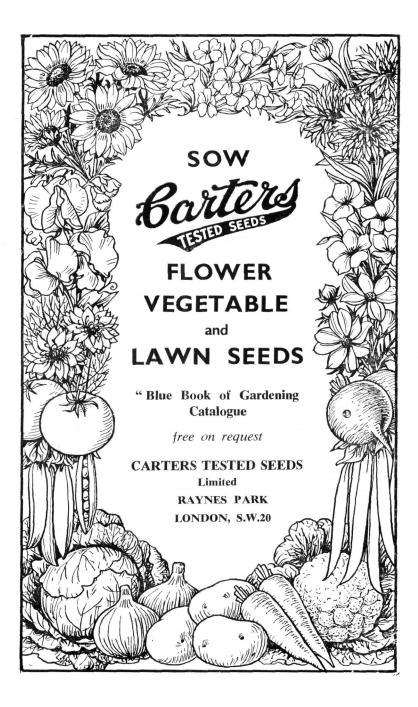
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JOURNAL

OF THE

KEW GUILD

FOUNDED-1892

AN ASSOCIATION OF MEMBERS OF THE KEW STAFF PAST AND PRESENT

1963

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C. R. STOCK, Beckenham.	G. J. E. YATES, Kew.
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Student Gardeners' Representatives : C. POPHAM and J. N. FISHER.

Hon. Auditors: A. S. WOODWARD and J. SOUSTER.

EDITORIAL.

We present the 68th issue of the *Journal* and in doing so we hope that you will find it interesting and generally worth reading and keeping. We thank all who have so very kindly supplied information and articles and those who, with the interests of the Guild at heart, have given freely of their advice and sympathetic understanding. Thus we leave the reader to carry on, lest he gives the work up at this early stage. Please let us know if you have any fault to find with it—for after all, you are the membership and it was produced from your subscriptions

AN APPEAL FOR

AREA CORRESPONDENTS IN THE COUNTRY.

As early as 1954, Mr. Stock of Beckenham was responsible for an enquiry on the desirability and need for regional representatives. The results at that time were inconclusive and the matter was not proceeded with. However, we are again lucky in having Mr. Stock on the Committee and he has brought the matter forward again for consideration. The Committee is giving full support to the scheme as there is a definite need for regional representatives, and they would play a very important part in the life of the Guild.

One of the most important links of the Guild is the *Journal* and the main role of the representative would be to keep members in each area in touch with each other and to supply the Editor with news and suitable material for publication. They would also be in a position to assist the Treasurer in his task of chasing the membership for their subscriptions if required. Already there are several very keen and efficient representatives abroad and their worth is well proven. In addition Mr. G. Johnson, of Camborne, has kindly offered to be representative and correspondent for Cornwall. At this stage, therefore, we ask those who are interested to serve in their own particular area to get in touch with the Editor who, being at the "nerve centre" will be in a position to make the best use of the information supplied.

Please write to the Editor if you are interested.

ANNUAL REPORT OF THE KEW GUILD RECORDS SECTION, 1963.

Since my last report, members have requested sixteen back numbers of the *Kew Guild Journal*, all of which have been supplied and paid for. The photographic collection has been increased during the past year by nine prints, six of these being presented by our 1960/62 Vice-President, Mr. J. W. Snowden, F.L.S. Our collection now contains 350 photographs.

S. W. RAWLINGS, *Records Officer*, 25th June, 1963.

J. S. L. GILMOUR. President, 1963/64.

To those who are familiar with John Gilmour's stimulating personality, and who are aware of the important part that he has played in both systematic botany and horticulture, as Assistant Director of Kew (1931-46), as Director of Wisley (1946-51) and since then as Director of the University Botanic Garden at Cambridge, it may come as a surprise to learn that he first became seriously interested in plants when made to collect wild flowers while still at his Preparatory School. What good fortune it was that the assignment of this task provided the spark that introduced our President to a way of life that has proved so rewarding. That our President's career has been so happy and successful, in no small measure depends on his ability to combine a real eye for and love of plants with the joys of gracious living, of reading and of music. For science, art and craftsmanship are all of them ingredients of botany and gardening at their best, and there is more besides, for these ingredients must be leavened with a love of one's fellows and a deep perspective of general knowledge before one can attain just that niche in the world of horticulture and botany that our President has come to occupy with such distinction.

To follow John Gilmour's career in detail is beyond the scope of this present note. Of the early stages it must suffice to say that even in his student days it was not difficult for all of us who had the good fortune to know him to predict that a great future for him must lie ahead. Nor would a recitation of his many achievements give any more idea of the man that he is than an herbarium specimen would convey of the living organism of which it was once a part. For vitality, enthusiasm and a sympathetic understanding, the hall-marks of his character, cannot be conveyed by listing the committees on which he has served, the titles of the books he has written or edited, or the international congresses and commissions in which he has taken part or on which he has served. The full story is concisely outlined in *Who's Who* where all who wish to do so may read the details.

Of special interest to members of the Guild is the period during which John Gilmour served as Assistant Director of Kew. He took up this post very early in his career, for, after graduating at Cambridge, he spent only about a year as Curator of the Herbarium and Botanical Museum at the Cambridge Botany School before coming to Kew. Here he had the formidable task, at the age of 25, of succeeding Major T. F. Chipp, whose untimely death had deprived Kew of an Assistant Director who had won the affection of many and the respect of all who served under him. Nevertheless John Gilmour threw himself into his new work with such vigour and enthusiasm that he gained the confidence of all his colleagues, including those who were greatly senior to him in age and length of service, and there can have been few, if any, who did not look upon him as a friend. He had, from the first, a marked influence on many aspects of our work and recreations, for he applied to his task a notable administrative ability combined with a broad and sound knowledge of his subject, and he was not afraid to ask his specialist colleagues for their advice whenever this was necessary. He will be specially remembered by those student gardeners who were with us during his term of office, for he attended to their every need, both personal and technical and did everything in his power to light them on their way.

One cannot leave our President's time at Kew without referring to his love of music. Those were the days when madrigals were sung on the lawn by King William's Temple and, on at least one occasion, in the lovely setting of the Temperate House, the choir conducted by our President himself. Many will recall the contributions which he and his fellow musicians made to our entertainment at Kew Guild dinners or in the singing of carols at Christmas.

It was with great sorrow that we learned in 1945 that he was to leave Kew, but our good wishes followed him to Wisley when he took up the directorship in 1946. Fortunately for us, John Gilmour has returned to Kew many times since then, and has joined with us on social and other occasions, and how glad we have always been to see him come.

Our President was translated from Wisley to Cambridge in 1951 when Humphrey Gilbert Carter retired from the directorship of the Cambridge Botanic Garden, a post which he had held for many years. It was indeed a lucky moment for our President to take up his new appointment, for the funds of the Cory Bequest enabled the Cambridge garden not only to be doubled in size but to be largely redesigned and its appearance and usefulness greatly improved. The Botanic Garden at Cambridge, thanks to the great efforts made by John Gilmour and his willing colleagues, is now much more worthy of the University than was the smaller garden with which the writer was familiar in his student days. It must also have been a great pleasure to our President that, on returning to Cambridge, his old and much beloved College of Clare honoured him with a Fellowship.

One of the highlights of our President's career was the award, in 1957, of the Victoria Medal of Honour in Horticulture, which in itself betokens the high esteem with which he is regarded in the world of gardening. The fact that in 1961 he became a member of the advisory committee of the Hunt Botanical Library in Pittsburg,, U.S.A., shows that he enjoys an international reputation for his knowledge of and love for books.

In recent years we have seen John Gilmour ascend to those Olympian heights where, above the tree line and the still higher zone of lichens, the subject of classification can be discussed without the embarrassing corporeal presence of the organisms to be classified. Some of us have scarcely the courage to follow him to

these high altitudes, but must perforce stay at lower levels where living organisms abound and where the everyday problems of taxonomy have to be solved by the study of actual specimens. From our reading of history and the more enlightened sections of the daily press we know full well that it is right, proper and rewarding for those who are eminent in almost any walk of life to go into occasional retreat from the cut and thrust of the daily routine of their respective disciplines in order to see them in perspective. Fortunately we know that our President's love for the beauty of gardens and flowers is a sure guarantee that he will never be content to think of them in abstract terms alone, as disembodied categories and taxa. The mere fact that he so fittingly allows a startlingly beautiful display of Bellis perennis to flourish on the lawn at his home at Cory Lodge is in itself enough to demonstrate his love for plants. And here, in his cheerful, happy home, where John Gilmour and his wife so charmingly entertain their many friends from so many walks of life, we must regretfully take leave of our President. In doing so we cannot be otherwise than thankful and delighted that John Gilmour can find the time in the midst of such a busy and worthwhile life to do Kew and the Kew Guild the honour of becoming our President.

DR. C. R. METCALFE,

President of the Kew Guild, 1960/61.

ONE HUNDRED YEARS AGO.

In the early part of January, 1863, Bentham was revising his manuscript for the first volume of the *Flora Australiensis*, which was published later in the year. On 17th January, he and Sir Joseph Hooker visited Paris to work in the Herbarium and see the botanists there and at the Jardin des Plantes. They met Baillon; Brongniart, "confined to his room through falling downstairs"; Cosson; Decaisne; Delessert, "aged 83 but still well and active"; J. Gay, "active as ever"; Montagne, "aged 80, old and infirm"; Tiana and Spach. They also visited the Louvre, attended the Opera Comique and had a very substantial and unusual breakfast of meats and wines with Cosson at 11.30 a.m.

Professor D. Oliver, Librarian at Kew, took over the joint duties of Keeper of the Herbarium and Library, with the aid of two assistants, on the retirement of Mr. Allan Black, Curator of the Herbarium. (Official date of Oliver's appointment—4th January, 1864).

"VISTA"

Any Guild Members requiring copies of the Students' Magazine "VISTA" are respectfully requested to write to the Editor of the Students' Association and NOT to the Kew Guild Hon. Treasurer

ERNEST BROWN.

Vice-President, 1963/65.

Mr. Ernest Brown, our Vice-President, has reached the mature age of 83 and throughout his long life has been a keen horticulturist and a Kewite of whom Kew and all Kewites may be proud.

His earlier experience was gained in private gardens in Essex and Yorkshire; during this period he was among the successful students to pass the Royal Horticultural Society's Examination in the first year of its inauguration.

Our Vice-President entered Kew in 1901 and served in the T-Range. His skill and ability was quickly noted and a transfer to the Propagation Pits was quickly followed by promotion to Sub-Foreman of this important department. During his stay at Kew he gained First Prize for the best collection of British plants.

In 1903 Brown was appointed Assistant in the Scientific and Forestry Department of Uganda and with another Old Kewite of the same vintage year—Morley T. Dawe—laid out most of the Entebbe Botanical Garden, a truly pioneering enterprise, working with the most primitive labour and tools. He was also actively engaged in introducing cotton growing among the native population and in forest exploration.

During this period in Africa he collected specimens for Kew and among them were several new species, some of which commemorate this connection with Uganda, viz.: *Listrostachys brownii*, *Lovoa brownii*, *Ceropegia brownii and Heinsenia brownii*. Acanthacae was, however, a special interest and no less than forty-seven species were collected, including a new genus. The collections included fifty of Orchidaceae.

When *Funtumia elastica* was discovered in the Uganda forests he turned his attention to the production of rubber and left the Government Service to become Assistant Manager of a large forest concession where his services and unique knowledge were of considerable value in organising and training the native labour in methods of tapping the trees. In due course it became obvious that the future of rubber was in the cultivation of *Hevea brasiliensis* in plantations. Realising its possibilities he joined a Rubber and Coffee Company as Manager, and it was at this period that Brown collaborated with Dr. H. H. Hunter in writing the authoritative book, *Planting in Uganda*, based almost entirely upon the experience he gained with rubber, coffee and cocoa under Uganda conditions. Our Vice-President was the first Secretary of the Uganda Planters' Association and also a founder member of the Uganda Motor Club, being the first possessor of a motorcycle in that country.

After some ten years with the Rubber Company, Brown's health began to fail through the repeated attacks of malaria and blackwater fever, and thus the return to England. In 1921 he became interested in a small fruit farm in Kent, but after a period of ten years a move was made to his present home at Cranleigh, Surrey. Here he made a garden of his own and has formed a fine collection of Cacti and other Succulents.

During the war period Brown served on the Surrey County Produce Association, the Civil Defence and revived the local horticultural society, becoming its secretary and writing numerous articles in various horticultural journals.

Brown and his wife Ruth, whom he met in his childhood days, celebrated their Golden Wedding recently, and their marriage is recorded in the *Kew Guild Journal* for 1914. After the trials and hardships of pioneering in Uganda they have settled down in their peaceful garden at Cranleigh. We wish them happy memories and tranquility in their remaining years.

A. J. BROOKS (1903).

KEWITES AS AUTHORS.

STELLA ROSS-CRAIG.

"Drawings of British Plants"—

۵. منظنیة (۲۰۰۰)

Part XVIII. Compositae (4). Bell (1963). 10s. 6d.

Part XIX. Lobeliaceae-Diapensiaceae. Bell (1963). 10s. 6d.

R. D. MEIKLE.

"Garden Flowers." Eyre & Spottiswoode (1963) 30s.

C. I. DICKINSON.

"British Seaweeds." Eyre & Spottiswoode (1963) 25s.

F. N. HEPPER (Editor).

"Flora of West Tropical Africa" by J. Hutchinson and J. M. Dalziel. Vol 2, 2nd ed. Crown Agents for Oversea Governments & Administrations (1963). 80s.

The late Dr. W. B. TURRILL (*Editor*).

"Vistas in Botany." Volumes 2 (100s.) and 3 (105s.). Pergamon Press (1963).

The late R. A. BLAKELOCK (Editor).

"Wayside and Woodland Blossoms" by E. Step. 3 vols. Warne (1963). 25s. each vol.

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

ANNUAL GENERAL MEETING, 1963.

The Annual General Meeting was held in the Students' Lecture Room (the old Museum II) at Kew, on Saturday, 31st August, 1963. The President, Mr. F. G. Harcourt, presided with the Hon. Editor, the Hon. Treasurer, and the Hon. Secretary in attendance and forty-four members present. The President opened the meeting at 2.45 p.m. by welcoming those present, and then called upon the Secretary to read the apologies for absence, after which he asked the meeting to stand while the Editor read the names of the Kewites who had died since the last A.G.M. The meeting then dealt with the Agenda, as follows : —

1. The Minutes of the 1962 A.G.M. had been circulated to all members by printing them in the *Journal* No. LXVII, pp. 138-146, and the meeting agreed that they be signed as a true record.

2. *The Report of the Committee* was presented to the meeting by the Hon. Officers as follows : —

- The designs for the arms and (i) Grant of Arms and Badge. badge were finally approved in 1962 by Garter King of Arms, and certified drawings were ordered for reproduction in the Journal. 630 extra copies of the reproductions were printed and these can be purchased for 3s. 6d. each. Black and white drawings of the arms and badge were also purchased from the College of Arms for making blocks for letter-headings, menus, the Journal, and so on. The Letters Patent were received from the College of Arms on 7th May, and were displayed at the dinner. They have now been mounted and framed, and will be hung in the Gardens Library for the time being. The total amount subscribed by members is £333 9s. 9d. Of this £281 16s. 0d. has been spent, made up of £157 10s. 0d. for the arms. £62 10s. 0d. for the badge, £22 11s. 0d. for the certified coloured drawings, £15 15s. 0d. for the black and white drawings, £7 15s, 0d, for the blocks, and £15 15s. 0d. for framing the Letters Patent. £51 13s. 9d. remains for any further expenses that may arise.
- (ii) Annual Dinner. This was held at the Chatham Restaurant, Victoria Station, on Wednesday, 22nd May, 1962, the President, Mr. F. G. Harcourt presiding, and 141 members and guests present. The restaurant charges were increased considerably this year, and the prices charged for tickets, 26s. full rate, 18s. for students, were based on an estimated attendance of about 120 at full rate and 20-30 students. In the event there were 104 at full rate and 34 at 18s., which with increases in other costs caused a deficit of £15 18s. 3d.
- (iii) The Journal. The 1962 Journal (Vol. VIII, No. LXVII) was published on 20th April, 1963. As with the previous number there were 128 pages. The cost of printing 870 copies was £433 18s. 10d. This high cost was due to the

production of coloured plates of the armorial bearings and badge, the blocks and printing of which cost £90 8s. 4d., but it must be pointed out that 1,500 prints were made and that after 870 had been used for the Journal, 630 remain for sale to members. After a careful check of annual subscribers and life members, using the recently formed card index system, we were able to reduce the number of Journals printed from 1,000 (the number printed annually for many years) to 870. As a result, the charge for printing the Journal, less the coloured reproductions, was £343 10s, 0d, which is £15 15s, 0d, less than last year. There were 21 pages of advertisements which will bring in £98 5s. 0d. The coloured illustrations of the arms and badge in this number have made it one of the most notable Journals. Miss Stella Ross-Craig's expert advice during the proof stages was largely responsible for the success of the reproductions. Our grateful thanks go to Messrs. H. J. Rowling & Sons Ltd., the printers, who were most helpful and conscientious during every stage in the production of the Journal and went to great pains to ensure the greatest economy of space. Reducing the number of *Journals* printed also reduces the surplus left on our hands, which has been over 100 a year for the last six years. This year the number will be about 15.

Mr. Prockter suggested that a surplus of 15 was too low, since in years to come members might wish to obtain back numbers. The Editor said it was not easy to assess requirements. In addition to copies for members, whose number was now known, allowance had to be made for copies for libraries and advertisers, and this year one of our Vice-Presidents, Dr. Thomas, had purchased several extra copies.

(iv) Back Numbers of the Journal. One complete set was sold to a member in New Zealand, and in addition 16 copies have been purchased. One complete set and upwards of 3,000 other copies remain. The Committee will have to consider reducing the stock, certainly of those Numbers (some 25 or so) of which we have over 50 copies. We have not the room to store so many unwanted Journals and must dispose of the surplus. Mr. Rawlings has kindly continued to look after the stock and to distribute copies as required.

- (v) *Photographic Collection*. Nine prints have been received, six of them from Mr. J. D. Snowden, bringing the total to 350. The collection is in the care of Mr. Rawlings.
- (vi) Christmas Cards. 3,116 cards were sold and yielded a profit of £21 0s. 7d. Of this £10 10s. 4d. was passed to the Students' Association, and the remainder added to the funds of the Guild. A new card has been printed this year, price 4d. The old cards will be on sale at 3d. each.

Mr. McMillan asked if some way could be found of informing members who could not come to the A.G.M. that cards were available, for the notice in the *Journal* tended to be forgotten in the latter part of the year. The Treasurer said that nevertheless quite a few members did write in. Mr. Pearce suggested that a note might be put in the *Gardeners' Chronicle*. The Secretary said that a reminder could be included in the notice of the A.G.M. and that he would make a note to do this.

- (vii) *Tie and Badge*. It was decided that the badge should be hand-embroidered, and that the tie should be in terylene or some similar material decorated with the badge. A sub-committee of Mr. Schilling, Mr. Hibbert, Dr. Keith Jones and Mr. Winter was set up to consider estimates and other details which had been obtained from a number of suppliers. As a result it was decided to accept the quotations from C. H. Munday Ltd., and steps were taken to obtain samples, which were considered by the Committee. Badges can be obtained on either dark blue or black cloth backing for £2 12s. 6d. each (postage extra), while ties will be available soon at about 14s. each (postage extra).
- (viii) *Membership*. A card index system has now been established, and, as a result of the circulars, letters and reminder slips that have been sent out, and of the notices in the *Journal*, it is now possible to state that there are 714 members of the Guild, made up of 314 Life Members and 400 annual subscribers (300 Old Kewites and 60 present staff paying 15s., and 40 students paying 10s.). The issue of bankers order forms has had an encouraging response, and it would be most helpful if more members would pay their subscriptions by this means. The annual income from subscriptions should be about £290. It will be obvious from the Address List printed in the *Journal* that the number of Old Kewites is about 1,000, so that with no more than 610 in membership, there is still a considerable field for recruitment.
 - (ix) *Financial Report*. Figures for the half-year January to June, 1963, were printed on the Agenda, and these were brought up-to-date by the Treasurer. (The figures given are not reported here since the accounts for the whole year are printed elsewhere in the *Journal*).

Attention was drawn to the low amounts in the Matilda Smith and Proudlock Funds, from both of which prizes are provided for the students. The Committee has authorised the Honorary Treasurer to transfer to these Funds whatever surplus is available at the end of each year until they again yield sufficient income to cover the cost of the prizes.

Mr. Milne-Redhead drew attention to the fact that the financial accounts were not submitted to the meeting and formally passed. The Secretary said that the accounts were printed in full in the Journal, which always appeared well in advance of the A.G.M.—this year on 20th April which gave members ample time to study the accounts and raise any matters which they wished at the A.G.M. The financial year is from 1st January to 31st December, and it is because the A.G.M. is held so late in the year that an interim statement of the accounts to 30th June is printed in the Agenda. The Treasurer pointed out that the accounts are changing all the time, the figures he had given today showed the change in the last two months. The Secretary said that in future the accounts as printed in the *Journal* would be put on the agenda of the A.G.M. for approval.

The Guild as a Charity. At the request of the Committee, (\mathbf{x}) Counsel's draft of the new "Objects" Rule, and further new Rules which had been received from the solicitor, were closely scrutinised by one of our members, Mr. R. D. Meikle, who has had legal training, and were afterwards considered in detail by the Committee. A number of points were referred to the solicitor, and then a complete draft of the Rules was examined and approved by the Committee. This approved draft was forwarded by the solicitor to the Charity Commissioners and the Inland Revenue on May 1st. The Charity Commissioners subsequently asked for last year's accounts and these were sent. So far there is nothing further to report. The new Rules will be submitted to the A.G.M. and the Committee recommends that they be accepted.

Mr. R. E. Williams said that he hoped that as soon as the status of a Charity is achieved, attention will be given to the possibility of changing the investments for some of the Funds to obtain as large dividends as possible. The Secretary said that the Trustees and Committee had this in mind, and it was, in fact, one of the factors which induced the Committee to endeavour to obtain the status of a Charity for the Guild.

(xi) Committee and Auditor. The following leave the Committee, having completed their terms of office: Mr.
W. J. C. Lawrence (Past President), Mr. C. F. Coates (Vice-President), Mr. A. J. Brooks, Mr. P. F. Hunt, Mr. S. W. Rawlings and Mr. T. R. N. Lothian, while Mr. S. A. Pearce is the retiring Auditor. The thanks of the Guild go to all these gentlemen for their services.

This completed the Committee's Report and the meeting then passed to the next item on the agenda, namely

3. Election of Officers, Members of the Committee and Auditor. The following had been nominated for election by the Committee, and their names printed on the Agenda, as required by the Rules. As there were no other nominations, the President put each name to the meeting in turn, all were approved unanimously and were declared elected : ----

President			Mr. J. S. L. Gilmour
President-Elect			Mr. S. A. Pearce
Vice-President			Mr. E. Brown
Hon. Editor			Mr. G. E. Brown
Hon. Treasurer		•••	Mr. A. D. Schilling
Hon. Secretary			Mr. J. R. Sealy
Members of the	Commi	ttee	Mr. G. H. Preston
			Mr. N. J. Prockter
			Mr. J. O. Taylor
			Mr. V. D. Wells
Hon. Auditor			Mr. J. Souster

Hon. Auditor . . .

4. Alterations to the Rules. Introducing this item, the Secretary said that the new Rules set out in the leaflet which had been distributed with the Agenda for the meeting, were those received from the solicitor. These have been discussed in detail by the Committee and are recommended to the meeting for acceptance as stated in the Committee's Report ((x) above). Number 2 is the important "objects" Rule which had been drawn up by Counsel. the rest were provided by the solicitor to meet the known requirements of the Charity Commissioners. Nos. 12 and 13 were those rejected by the A.G.M. last year. As would be seen, No. 12 had been amended to meet the objections raised. No. 13, on the other hand, was unaltered. This was because the fears that had been expressed at the meeting last year, namely that this Rule could be used to cover a deliberate withholding of notices of meetings to a substantial number of members, were completely groundless; the solicitor has said that the word accidental meant what it said, the Rule could not be used to cover more than the odd omission to give notice. The purpose of the Rule was to prevent the upsetting of decisions taken at a properly convened meeting on the grounds that one or two members had not received notices of the meeting. The other Rules spoke for themselves. On behalf of the Committee. the Secretary then formally moved the Resolution printed on the Agenda, namely

"That the present Rules 3 and 10 be rescinded and replaced by Rule 2 set out on the leaflet which accompanied the Agenda, and that the new Rules, numbered 5, 6, 9, 12, 13, 14, and 17 in the same leaflet be added to the existing Rules."

Mr. Ballard drew attention to the fact that the Director and Curator were always the Trustees of the Guild and he asked why this was not set out in the Rules. The Secretary replied that this was because they served by invitation ; a future Director or Curator might decline to serve, in which case the Committee would appoint someone else. Incidentally, the only reference to Trustees that could be traced was in the *Guild Journal* No. XIV, p. 288 (1906), where it is stated that the Director, Lt.-Col. Prain, had kindly consented to become a Trustee in place of Sir W. T. Thistleton Dyer, and that his co-trustee was Mr. G. Nicholson.

Mr. Cherry said that the provision of new Rules was welcome as putting matters on a sure and sound foundation. After a few further comments, the President put the resolution to the meeting and it was carried unanimously. The new Rules have been incorporated with the existing Rules and the full Rules are printed at the end of this *Journal*.

5. Any Other Business. The President said that Mr. Gilmour had not been able to get to the meeting, and he was therefore unable to welcome him as the next President, but Mr. E. Brown, the new Vice-President was present and he would therefore ask him to say a few words. Mr. Brown said that he wished to thank the Guild for the great honour of election as Vice-President and would like to say how pleased he was, after being a member of the Guild for over sixty years, to see the Guild attain the dignity of a grant of arms and produce the money to pay for it so readily; but the most important point was that the Guild had been able to satisfy the College of Arms that it was worthy of a grant of arms, and there could be no better indication of the status that the Guild had now attained.

The Secretary said that as they had a little time in hand he would like to draw attention to the fact that the new three-year course for students, which would be starting at Kew this year, would necessitate a re-consideration of the prizes that the Guild presented. This was something that the Committee would have to deal with at its forthcoming meetings and he was sure that suggestions would be welcome. It was generally agreed that the Guild should try to meet the changed circumstances, and Mr. Pemberton drew attention to the fact that the Watson Educational Fund was no longer the spur it had been, and might be used in a different way in future. Mr. Eul said it was difficult for members to make proposals without seeing the syllabus. The Secretary replied that he would be distributing copies to the Committee, and other members could obtain them by writing to the Director.

Mr. Stock then proposed a hearty vote of thanks to the President, not only for the admirable way in which he had conducted the meeting, but also for all the work he had done during his year of office; this was carried with acclamation. Finally, Mr. McMillan said that the meeting should not be allowed to end without a vote of thanks to the other officers of the Guild for the time they had devoted to the affairs of the Guild and for the excellent results achieved : this too was carried with acclamation.

The Tea this year was held in one of the huts adjoining the Herbarium. An exhibition of books had been specially arranged in the library and Dr. Hubbard cordially invited all present to visit the library and see the books and also the newly-framed letters patent of the grant of arms and badge, which was also on view. Many members and guests did visit the library after tea, and, judging from the comments one heard, thoroughly enjoyed the experience and found the exhibition most interesting. Our grateful thanks go to Dr. Hubbard and to Mr. Desmond, the Librarian, for providing such a pleasant finale to the day.

ANNUAL DINNER, 1963.

The 72nd Annual Dinner was held at the Chatham Restaurant, Victoria Station, on Wednesday, 22nd May, 1963, the President, Mr. Harcourt, with 141 members and guests attended. Those invited to attend as guests were Mr. J. B. Brooke-Little, Bluemantle Pursuivant of Arms, Mr. R. J. Garner, of East Malling Research Station, and Dr. H. R. Fletcher, Director of the Royal Botanic Gardens, Edinburgh. The latter gentleman was unfortunately prevented from attending by a sudden illness as he was arriving for the dinner.

Members found the tables laid out with azaleas and attractive menu cards which displayed the Armorial Bearings. The menu consisted of Petite Marmite — Sole au Vin Blanc — Roast Saddle of Lamb with Mint Sauce and Red Currant Jelly, New Potatoes au Beurre, Cauliflower with Cream Sauce—Soufflé Surprise and Coffee.

After the toast to Her Majesty The Queen, the toast to the President was most ably proposed by Mr. T. A. Russell, Principal Scientific Officer in the Department of Economic Botany at Kew. With his vast experience abroad, in the West Indies and West Africa, and thus with a first-hand knowledge of the conditions under which the President worked, Mr. Russell was an obvious choice for this task. He spoke of the economic values of some of the food crops grown in the tropics and of sugar in particular which he had known to be so plentiful that it was given as an "extra" with the groceries. Mr. Russell followed by giving an account of our President's career and paid tribute to the great administrative capabilities which he had shown during his official duties in Antigua.

After the toast the President rose to reply. He first extended a cordial welcome to the charming lady guests whose presence he felt was a sure sign that they had the affairs of the Guild at heart. With a special reference to the young Kewites, he noted with pleasure that they had just as discerning an eye for the ladies as the "old brigade" had in their student days. Continuing with reference to the Armorial Bearings and Badge, Mr. Harcourt thanked Kewites for their support. It had, he stated, enhanced the status of the Guild and had made 1963 an historic year in the Guild's history. The sequence of events which led to the acceptance of the designs was explained. Miss Stella Ross-Craig, the well-known botanical artist and Mr. Sealy, the Secretary, were brought into the picture and Mr. Harcourt recalled how they took their ideas as sketches to discuss the designs with the College of Arms. At this point he introduced Mr. Brooke-Little, Bluemantle Pursuivant of Arms, who played the major part in the efforts to agree upon designs which would meet with general approval. Revealing the fact that the designs are based upon the ideas which were put forward at this meeting the President mentioned some of the difficulties which were experienced as negotiations developed. During the Committee stage the size and proportions of the badge gave rise to some misgivings, while some members found it difficult to accept the ruling that a badge must not be in the form of a shield. Mr. Harcourt then explained that in an attempt to clear up these points, Bluemantle and Miss Ross-Craig attended a subsequent committee meeting and the essential details were discussed and settled. It was at this meeting, he recalled, that Bluemantle stated firmly that a badge in shield form was not recognised by the College of Arms. Mr. Harcourt followed this explanation of the sequence of events which led to final agreement by formally thanking Mr. Brooke-Little for bearing so patiently with the Committee in their deliberations, adding that members were most grateful to him for his assistance and guidance, and for the excellent design he had made for the Guild. This thanks was then extended to Miss Ross-Craig for her help in providing ideas and sketches and also for providing the College of Arms with accurate drawings of the Oak, Cinchona and Vine. The President then completed this section of his speech by thanking Mr. Sealy, the Hon. Secretary, for the able and competent manner in which he handled the negotiations and for the background information and ideas which he supplied. He added that he had seldom, if ever, known anyone so keen in pursuing a subject.

Mr. Harcourt then took his audience back to August, 1920, when he left Kew to take up his first appointment, that of Curator and Agricultural Superintendent in Antigua, Leeward Islands. He described how he soon discovered that Kewites were held in high esteem throughout the British West Indies, where each of the islands had an agricultural station and botanical garden. He stated that in most cases Kew men were in charge doing excellent work in advising planters on their crop problems and in supplying them with selected planting material. Among the amusing incidents which he recalled was one which occurred during his first few days in Antigua. Explaining that the term "ack-ack" was in general use, particularly in expressing surprise, Mr. Harcourt recalled that as he was walking down the street and being a newcomer, was obviously the centre of attraction, he overheard one person say to another, " ack-ack !, who dat am ? " The reply was given—" Him be new Creator, ack-ack, he look the same as other buccra."

There followed a description of some of the problems which he experienced when he took over the post of Curator and Agricultural Superintendent of Dominica.* Paying tribute to the valuable work of the two Kewites who were under him at that time —Mr. Frank Squibbs and Mr. George Bassett—he asked the latter gentleman, who was present, to stand, and thus to make himself known.

After giving some sound advice to the young Kewites, the President praised the work of the Officers of the Guild and the Committee. Then he turned to the membership at large stating : "I know I echo the sentiments of all who assist in conducting the affairs of the Guild when I say, what we do we do gladly, and when all is said and done it is really the steadfast loyalty and the active encouragement of members of the Guild which makes the success of our work possible." On this note our President called upon the assembly to drink a "bumper" toast to the Kew Guild.

Mr. J. E. Elsley, a Student Gardener, then rose to propose a toast to Our Guests. He reminded the gathering of the great help which Mr. J. P. Brooke-Little, Bluemantle Pursuivant of Arms, had given the Guild. He then referred to Mr. Garner, of East Malling, who, he stated, was a great authority in the classification and propagation of fruit root-stocks and in vegetative propagation generally. He reminded his audience that Mr. Garner's reputation in these matters was acknowledged by the Fruit Group of the National Agricultural Advisory Service who made a special reference to his work in their bulletins dealing with raising of fruit trees. Mr. Elsley also spoke of Mr. Garner's book, *The Grafters Handbook*, which was published in 1946, and aptly termed it as "the propagator's bible". Finally Mr. Elsley drew attention to the numerous first-class lectures which he had given to the students. at Kew.

Mr. Garner responded to the toast with a very fine and amusing speech. He first looked back at the past and remarked, "how wonderfully we were blessed in our ancestors, who regarded Kew as their headquarters and the whole world a garden to be cultivated for the benefit of all. What giants they were! He recalled that in 1958 he was invited to Malaya to advise upon the vegetative propagation of clonal varieties of rubber. It was explained that it was in this connection that a visit was made to Kew, to use his own phrase—" in an attempt to lessen my ignorance, if only for the sake of Malaya". An account of his early impressions of Kew followed—"the green door on Kew Green—the carpet in the Director's Office—the Curator's cup of tea and finally the Tropical Department". There, he stated, "in true student style I was humidified, mesmerised, petrified, pulverised and terrified by plantsmen and economically brain-washed by scientists". Thus Mr. Garner, by skilful use of words and expressions held his audience in the grip of laughter, general amusement and interest until he finally

* Kew Guild Journal, 1962, Vol. VIII, No. LXVI, page 135.

thanked the Kew Guild, on behalf of Mr. Brooke-Little and himself, for their kind hospitality and wished members "every happiness and a long and successful association".

The presentation of the prizes was then made by the President. They were as follows : --

- (1) The Hooker Prize: given annually by the Director and awarded to the student who is considered to have done most for the Mutual Improvement Society, to Mr. J. B. Gaggini.
- (2) *The Dümmer Memorial Prize*: presented by the Guild to the student who makes the best collection of British plants, to Mr. J. B. Gaggini.
- (3) The Proudlock Memorial Prize : presented by the Guild to the student who makes the second best collection of British plants, to Mr. K. M. Fellows.
- (4) The Photography Prize: presented by S. W. Rawlings, Esq.. to the student who makes the best horticultural transparency, to Mr. B. J. Salter.

The winners of the following prizes were unable to be present this evening : —

- The C. P. Raffill Prize : presented by the Curator to the student who gives the best paper to the Mutual Improvement Society, and
- The Matilda Smith Memorial Prize: presented by the Guild to the student who obtains the highest marks during the two-year course at Kew

were both awarded to Mr. M. Theron (who was then on his way to South Africa).

- The Grower Prize : presented by the Directors of The Grower to the student adjudged the best practical gardener during the two-year course at Kew, was awarded to Mr. K. Woolliams.
- The Proudlock Tennis Cup for Ladies was won by Mrs. R. J. Claiden.
- The Proudlock Tennis Cup for Men was won by Mr. R. J. Claiden.

After this ceremony the Toastmaster read out the names of those Kewites who were present from overseas and each was asked to rise in his place as his name was called out.

The floor was then cleared and members and guests were able to meet each other, to drink by the bar or to gather informally as they listened to a short entertainment which was provided by a number of student-gardeners. Great credit must be paid to these students who indeed had a very difficult task; they were : Messrs. J. D. Higham, G. Spate, J. Woodhams, G. Fisher and B. Salter. Obviously members wanted to meet each other and talk over their old days at Kew. During the intervals and at the end of the entertainment a great buzz of conversation broke loose. Then Kewites were just Kewites, ranks and positions were forgotten and the air was full of such remarks as-" how on earth did he pull that job off ?--- "do you know where he is now ? "-- "do you remember our first day in the Temperate House ? "-" I had that charge in 1904 "—" young man, I am one of the old ones" and so on . . . until one by one or in small groups, members left to go their various ways, perhaps to a parks department in the Midlands, perhaps to some distant rubber plantation in Malaya-between them to garden the world. All were poorer in pocket but richer in spirit—it was a wonderful evening, an essential part of the Guild's activities.

THE KEW GUILD ANNUAL DINNER will be held on

Wednesday, 27th May, 1964

at

THE CHATHAM RESTAURANT, Victoria Station, London, S.W.1

6.15 p.m. for 7 p.m.

Dress Optional

Tickets 27/- each (Student Gardeners 24/- each) from the Hon. Treasurer

THE ANNUAL GENERAL MEETING AND TEA will be held on

Saturday, 29th August, 1964 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 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, 1964

KEW GUILD CHRISTMAS CARDS

Christmas Cards are available from the Hon. Treasurer

Previous issues — 3d. each

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

MEMBERS AND THEIR WIVES PRESENT AT THE ANNUAL DINNER, 1963.

STAFF

Barton, Miss A. Brown, Mr. and Mrs. G. E. Coates, D. Cook, Mr. and Mrs. A. G. Jones, Dr. and Mrs. K. Metcalfe, Dr. and Mrs. C. R. Milne-Redhead, Mr. and Mrs. E. Pearce, Mr. and Mrs. S. A. Preston, Mr. and Mrs. G. H. Rawlings, Mr. and Mrs. S. Russell, T. A. Schilling, A. D. Sealy, Mr. and Mrs. J. R. Simmons, Mr. and Mrs. J. B. Stevens, A. D.

PRESENT STUDENTS

Armony, A. Breach, D. Bridgeman, P. Burlingham, Miss K. Davenport, R. Deans, R. Dennis, Miss J. Dodge, M. Duncan, C. E. Elsley, J. Fellows, Mr. and Mrs. K. Fisher, J. Gaggini, J. Griffin, M. Higham, D. Hyde-Trutch, Miss J. Leaver, G. Marshall, Mr. and Mrs. R. Overland, T. Pead, C. Pearson, D. Popham, C. Ralston, Mr. and Mrs. Salter, B. Spate, G. Winter, J. Woodhams, J.

VOLUNTARY STUDENTS

Thomas, R.

Diedrick, Mr. and Mrs. V. Gbogbo, S.

OLD KEWITES

1907	Thomas, Dr. E. K.
1912	Downer, Mr. and Mrs. H. E.
1914	Johnson, Mr. and Mrs. G. C.
1915	Flippance, F.
1920	Harcourt, Mr. and Mrs. F. G.
1921	Butcher, H. G.
1741	Richards, Mr. and Mrs. L.
1022	
1923	Conn, P. W. H.
	Jones, C.
1924	Lawrence, Mr. and Mrs.
	W. G. C.
1925	Howell, Mr. and Mrs. W.
1927	Bassett, W. E.
1928	MacMillan, R. C.
1929	McCreadie, K.
1930	Rudd, C. W.
1932	Farley, G.
1935	Eul, Mr. and Mrs. F. H.
1936	Walls D V
1750	Williams, R. F.
1937	
	Prockter, N. J.
1940	Bird, E.
1946	Hack, H.

L LO	
1946	Joy, G.
	Trower, Miss S. M.
1947	Mitchelmore, C. J.
1949	Coates, Mr. and Mrs. C. E.
1950	Brown, L. R.
1952	Storey, W. E.
1953	Dunball, A. P.
1955	James, V. R.
1956	Baylis, Mr. and Mrs. C.
1958	Hart, Mr. and Mrs. A.
	Marshall, W. S.
	Paterson, A.
	Risely, Mr. and Mrs. T.
	Rooke, Mr. and Mrs. I. G.
	Sales, D. J.
1960	Campbell, W. M.
	Pitcher, B. F.
1961	Dyke, D.
	Heine, Dr. H.
	Humphrey, B.
1962	Preston, Mr. and Mrs. T.
	Voungman Miss P I

MEETING OF KEWITES IN BERMUDA.

The first meeting of Kewites in Bermuda took place on the evening of Thursday, 11th April, 1963, at the Director's residence in the Botanical Gardens. This meeting took the shape of an informal social evening and buffet supper. Our kind hosts for the evening were the Director of Agriculture and Fisheries, Mr. Gordon Groves, and his charming wife.

Those present included the following Kewites and their wives : Mr. (1937) and Mrs. Groves; Mr. (1956) and Mrs. J. Hubert Jones; Mr. (1960) and Mrs. Andrew Pierce; Mr. (1958) and Mrs. Roy Thomas; and Mr. (1956) and Mrs. D. J. Moore.

The only other guest was Mr. George Ogden, Superintendent of Parks for the City of Hamilton. George is the only ex-Wisleyite in Bermuda, and Mr. Groves showed true Kew compassion in inviting this likeable and knowledgeable waif to be present at such an august gathering.

GOINGS-ON OF KEWITES IN BERMUDA.

The senior Kewite in Bermuda continues to add distinction to the Guild. Mr. Groves was honoured by the Queen in the 1963 New Year's Honours List when the O.B.E. was bestowed upon him.

Roy Thomas has left the Corporation of Hamilton and is now Manager of Bermuda's newest commercial horticultural venture, namely, Horticultural Services Ltd. Roy also represented Bermuda at the 1962 Annual Meeting of the Association of Kew Gardeners in America, Inc.

Hubert and Ann Jones lead in the Stork Club Stakes, having now added a son to their family of two daughters.

The latest recruit to our ranks, Andrew Pierce, is well established at the Coral Beach Club. Evidence of his skill is apparent to all who visit and note the many horticultural improvements taking place in that establishment. His wife, Gina, has settled down to the Bermuda way of life rapidly, and is finding ample outlet for her musical talents.

Yours truly returned to Bermuda from England two days after the big freeze started. (Not in Bermuda). This return followed one year of absence, successfully attending the College of Park Administration, Berks. The year was of great value to me, and it was a pleasure to be present at the Kew Guild Dinner after six years of absence.

Proof of the expansion of professional horticultural activity in Bermuda is shown in the recent formation of a Horticultural Association.

DONALD J. MOORE.

NEW ZEALAND BRANCH OF THE KEW GUILD

Report of the Dinner of the New Zealand Branch held at the "Four Seasons" restaurant, Christchurch, on 22nd February, 1963. This will be a date long remembered by New Zealand Kewites, for we had all gathered to participate in the Conference being held in Christchurch. The Centenary Celebrations of the Christchurch Botanic Gardens were also held during this time.* New Zealanders interested in the various fields of horticulture came to pay tribute to the now famous Botanic Gardens which had led the field, contributing so much to botanical and horticultural interests.

The celebrations thus well attended, included the highlight of the week, the grand flower show. This was a second Chelsea, the largest show ever to be held in New Zealand. This event was crowned by the greatest possible honour in the gracious presence of Her Majesty the Queen, who with Prince Philip showed great interest in the Botanic Gardens during their short sojourn in the City of Christchurch.

It was with pleasure that the Kew Guild Branch gathered in the light of these events to enjoy a fine dinner, to renew friendships and to recall happy memories of Kew. In the toasts which followed it was most appropriate to mention the names of two New Zealand Kewites who had done so much in the moulding and development of Christchurch Botanic Gardens, namely : ---

Mr. J. A. McPherson, A.H.R.H.S., N.D.H.(N.Z.), (1924), Curator from 1933-45.

Mr. M. J. Bassett, M.B.E., A.H.R.H.S., N.D.H.(N.Z.), A.H.R.I.H.(N.Z.), (1914), Director from 1946-55.

We were honoured to have as our guests for the evening Mr. and Mrs. Gilpin. Mr. Gilpin is the present Director of the Botanic Gardens and the Christchurch Parks and Reserves. Also Mrs. D. Tassock, wife of the late David Tassock.

Kewites present at the dinner were : Mr. M. J. Barnett (1914), Chairman, and Mrs. Barnett ; Mr. J. A. McPherson (1924) and Mrs. McPherson ; Mr. L. Lannie (1939) and Mrs. Lannie ; Mr. D. Riach (1955) and Mrs. Riach ; Mr. C. H. Jones (1939) and Mrs. Jones ; Mr. J. O. Taylor (1947) and Mrs. Taylor ; Messrs. D. C. MacKenzie (1939), Secretary, A. McK. Geddes (1961), J. G. Short (1940), R. Balch (1939) and H. H. Edwards (1947).

Apologies were received from Messrs. D. Leigh (1933) and J. G. C. MacKenzie (1934).

The Toasts were : ----

"The Queen "-Mr. M. J. Barnett.

"The Kew Guild "—Mr. J. A. McPherson, reply by Mr. A. McK. Geddes.

"The Ladies"—Mr. R. Balch.

* K.G.J. (1962), Vol. VIII, No. LXVII, p. 191.

Following the Dinner a movie film of the "Seasons at Kew" was projected by Mr. Taylor.

We look forward to the gathering in 1964 and in the meantime would like to convey our kindest regards to the vast membership of the Guild.

A. MCK. GEDDES, Dip.Hort.

PHOTOGRAPHIC SECTION.

Now established as an annual event, the slide competition for coloured transparencies attracted a record entry of 130 slides. The first prize in Class 1 (Plant Portraits), was awarded to Alan Barber for Gazanias. Colourfully rendered on Kodak II, it was a close first. Richard Marshall's Ektachrome study of Hibiscus rosa-sinensis being placed second, John Elsley's Pleione formosanum, on Agfacolour, was third. In Class II, the study by John Elsley-" Rays of Hope" on Ferraniacolour was first. The shot was taken as the sun's rays first showed through the trees by the mound garden after last winter's big fog and freeze-up. Placed a close second was "Evening Magic" by Tony Schilling. This was an evening view along a snow covered mountain ridge towards a distant loch, on Kodak II. The third prize went to "Newspaper Boy" by Peter Wilson, photographed at Clovelly, using Kodak II. Three prizes in each class are awarded, being provided by the Club, excepting the S. W. Rawlings' prize for top place in Class 1.

In December the photographic and mountaineering sections combined to present a show depicting the activities of the climbers in Snowdonia and the glorious scenery which they enjoyed throughout the year. It was very well attended and was thoroughly appreciated by all. Another slide evening is planned and also a lecture by Mr. Rawlings on Matters Photographic.

During the past year the students' slide collection has been placed under the care of the photographic section. In response to last year's request, approximately 300 more slides have been received including some very generous donations from the United States and Canada. These are being placed in the library as they are mounted. Gifts of slides of plants and other horticultural subjects are still welcomed and should be addressed to the Photographic Secretary at the Gardens. A really grateful thank you is extended to the benefactors of the collection in the past year.

Sales of photographic material and equipment have been promising and the section has not drawn from club funds for prizes this year. It is hoped to keep up this practice in future and to pay for the mounting of slides for the collection as well. Buying through the club, members received a 5% discount and the club approximately 2%. My thanks are due to John Winter for helping with the sales and to all who have supported the club.

B. J. SALTER, Hon. Secretary.

SPORTS AND SOCIAL CLUB.

The past year has been a very enjoyable and successful one for the Sports and Social Club. There has been a reasonable attendance in the sporting activities, and the dances, especially the jazz hops held at the Coach and Horses, Kew Green, have been well supported. Our thanks go to Mr. and Mrs. Dempsey for making these social evenings possible. The Christmas draw and the football pontoon have increased the financial income considerably. The organisers of both are to be congratulated on their successful efforts.

The Christmas party was held at the Boathouse, Kew Green on 20th December. There was an excellent attendance, which included not only the students and Old Kewites, but also the Assistant Curators, members of the Herbarium Staff, Director's Office and Jodrell Laboratory. The decorations were very good and principally composed of greenery, pot plants and a large Christmas Tree. In the corner of the hall there was a replica of the new Kew Guild Badge.

The programme for the evening included the competitions among the various departments. The individual acts were well constructed, original and amusing, indicating that a great deal of time had been spent in preparing them. The panel of judges consisted of Mrs. Dempsey, Dr. and Mrs. Metcalf, and Dr. and Mrs. Hubbard. The first prize—the traditional Christmas Cake baked by Mrs. Metcalf—went to the tropical pits for its interpretation of "The Bedroom". Also to be remembered was "Retrospect 1963", a sketch performed by the students of the Palm House. This was a "take-off" on Kew life and was based on the television programme—"That was the week that was". Among the other acts (all of which are worthy of mention but space does not allow), was a programme by the "Cockroaches", a team of very accomplished singers and musicians. It is hoped that we will see and hear more of them at a future date.

The election of officers for the year was as follows : President, Dr. C. R. Metcalfe; Chairman, Dr. K. Jones; Treasurer, Mr. I. Beyer; General Secretary, Miss K. Burlingham; Social Secretary, Mr. C. Popham; Sectional Secretaries : Cricket, Mr. C. Roome; Hockey, Mr. W. Lewis; Football, Mr. M. Dodge; Athletics, Mr. J. Elsley; Mountaineering, Mr. A. D. Schilling; Music, Mr. M. Bentall; Photography, Mr. B. Setter; Table Tennis, Miss J. Dennis; Herbarium Representative, Miss E. Hastings; C.M.I. Representative, Miss E. Hastings; and M.A.F.F. Representative, Mr. R. Fender.

The members of the club would like to express their thanks to Mr. Pearce, who retires from the post of Treasurer after many years of continuous service. We are very sorry that he has resigned, but we are thankful for all the kindness and help he has given. The thanks of club members are also extended to all who have helped to make the year such an eventful and happy one.

Miss K. BURLINGHAM, Hon. General Secretary.

KEW-WISLEY RACE.

The race, which was held on 23rd March, was indeed one to remember. Before the race Kew had put in considerable training. The team had also entered an important road race a month before the event and this kept us in peak condition.

Dr. Hubbard acted as starter, there being representatives of nine teams at the line-up.* At the end of the first take-over point Wisley were third and Kew were fourth. However, by the end of the second lap Kew had crept into second place with Pershore leading. Then on the third stage through Bushey Park, D. Morgan gained a substantial lead for Kew and this was maintained to the finish. It was a commendable effort by the Kew team who finished first with a new record time of 1 hr, 33 mins. 23 secs., thus beating the old time by 1 min. 36 secs. The order of running was : D. Waddell, D. Ralston, D. Morgan, J. B. Gaggini, J. Elsley and G. Spate.

Pershore were placed second and Wisley third. Kew have now won the race six times to Wisley's seven. This was the first occasion on which we have won the "Invitation Cup" which was presented in 1957 by Sir George Taylor, Dr. N. L. Bor and Mr. F. P. Knight. J. B. GAGGINI, *Retiring Hon. Secretary*.

CIVIL SERVICE SPORTS DAY.

This meeting was held in late June at Chiswick and once again superb weather conditions led to a highly successful afternoon. We entered a large team and just failed to win the Howell Thomas Cup for the Region, obtaining the highest number of points by a mere six. Reference should be made to our girls who made a great effort to overcome our lack in numbers. Mention should finally be made of the very high standards achieved in most of the athletic events for such a meeting. Successes were gained in the following events : —

Tug-of-War	 2nd.
Men's Relay (4 x 110)	 1st—Winning the "Colwyn
	Bay" Cup (Team : J.
	Gaggini, G. Spate, J.
	Winter, J. Elsley).
	 2nd—J. Elsley.
	 2nd—J. Elsley.
Men's 440 yds	 2nd—J. Elsley.
	3rd—G. Spate.
Men's 880 yds	 3rd—G. Spate.
Men's Long Jump	 1st—J. Elsley—winning the
0 1	"Floud " Cup.
	2nd—G. Spate.

* Essex Institute of Agriculture, Writtle; Kent Farm and Horticultural Institute, Sittingbourne; Kent Farm and Horticulural Institute, Swanley; Hertfordshire Institute of Agriculture, Oaklands; Pershore Institute of Horticulture, Worcs.; Royal Botanic Gardens, Kew; Royal Horticultural Society, Wisley; The Institute of Park Administration, Reading; and The John Innes Institute, Brayfordbury.

CLOG AND APRON RACE.

The girls were once again given a generous handicap after much "discussion" among the males ! In a really close finish J. Elsley just beat Miss K. Burlingham with G. Spate third.

ROUND THE GARDENS RACE.

This race eventually got underway after a false start and resulted in a win for J. Elsley (Tropical Pits). The orders were then : 2nd G. Spate (Decorative Dept.); 3rd M. Dodge (Temperate Dept.); and 4th C. Duncan (Tropical Pits). The Inter-Departmental Cup was won by the Tropical Pits.

Our thanks are due to Dr. Hubbard for starting this and the Clog and Apron Race. He also gave a bottle of Sherry as first prize in the latter race. Mrs. Hubbard kindly presented the prizes. We also thank Mr. Stenning, who gave the second and third prizes for the Clog and Apron Race. Mr. Fender kindly acted as Judge/ Timekeeper for both races.

CIVIL SERVICE CROSS COUNTRY CHAMPIONSHIPS.

This event was held over a $5\frac{3}{4}$ -mile course on Wimbledon Common early in December. For the first time we had some of our runners selected for the Ministry of Agriculture Team. The team finished 6th out of 12—a very creditable performance, nearly 140 runners. The final positions of the Kew runners were: J. Elsley, 40th (32.55); G. Spate, 61st (34.32); C. Duncan, 82nd (37.12); M. Dodge, 93rd (38.22); D. Waddell, 96th (38.88); M. Bentall, 110 (41.46).

This year we entered, for the first time, teams for the General Electrical Companies Road Relay and also the Lansbury Athletic Club's Road Relay. Two teams were entered for the former, the "A" team finishing 14th and the "B" team 17th out of 20. The Lensbury Race was held in an evening during April and consisted of $5 \times 2\frac{1}{2}$ mile laps starting and finishing at the Shell building on the South Bank, Waterloo. Our team consisting of J. Elsley, D. Ralston, D. Morgan, J. Gaggini and G. Spate finished 13th out of 18 teams—a fine performance in a field which contained several international runners.

Finally I would like to thank everyone who has given this section their support. We have a number of fixtures before the Kew/Wisley Race on 7th March, 1964.

There is a cabinet in the Students' Library for the display of trophies. J. E. ELSLEY, *Hon. Secretary*.

CRICKET SECTION.

The 1963 cricket season was, as usual, successful and most enjoyable. The results of the thirteen fixtures which were arranged were : five won, six lost, one drawn and one cancelled because of rain. I am pleased to report that not one fixture was cancelled because of lack of support. We started the season in fine style with four victories in a row. The first was on Kew Green against Writtle C.C. Kew went in first and scored 75 runs, Brian Croston (Vice-Capt.) 22 and Dave Ralston 25. With the bowling of Dave Hellewell (Capt.), 4 for 12, and B. Croston, 3 for 9, we had the visitors all out for 45 runs. The return match during the next week at Writtle completed the double with a 19-run victory. The captain of the day, B. Croston, took 7 wickets for 17 runs. The journey to Verdley C.C. proved to be rather arduous but well worth while with a 5-wicket victory.

The Old Kewites match was played with the usual keenness, ending in a narrow win for the students. The honours went to Jeff. Fisher, 28 runs not out with 4 wickets for 23 runs. The point was raised that the Old Kewites' team should be arranged by an old student, not by the Cricket Secretary. We hope this matter can be settled before the next season.

This match ended our run of luck and the sequence of events which followed are best left unwritten. We lost by 8 wickets against the Richmond Nomads, by 27 runs against Wisley (of all people) and were then beaten by 2 runs when playing John Innes. We found some consolation in beating John Innes on their own ground by 15 runs. D. Hellewell scored 19 runs with 8 wickets for 13 runs. Then came the return match against Wisley. Kew hit 109 runs. Dave Pierce 29 and John Elsley 21. Wisley were in trouble at 75 for 8. With a Kew victory in sight, Wisley imposed a time limit and called it a draw.

Cambridge proved too strong again and Kew were well beaten by 36 runs. Ilford won both of their matches. The first on Kew Green by 25 runs with Roy Thomas 36 not out. If Roy had not run out of partners, the result might well have been in our favour. We travelled to Ilford with a weaker team and lost heavily by 8 wickets. One match which was not arranged until the middle of the season was the revival of the North v. South cricket match. This proved to be very enjoyable and the fact that the North won was quite immaterial.

We were requested to send a player to represent the Kew Gardens Cricket Club in the Mayor of Richmond Charity Match against an All-Star Eleven. Lots were drawn and Roy Thomas was entrusted to carry our good name to Richmond. He opened the batting for the Mayor's team and later took a wicket before he was taken off to allow the comedians to take over.

The batting averages were topped by D. Ralston and the bowling by J. Elsley.

In conclusion our thanks are due to all girl friends, wives and others for their help in catering and recording the scores.

P. H. BRIDGEMAN, Hon. Secretary.

LAWN TENNIS CLUB REPORT, 1963.

1963 will surely be remembered as the most unhappy season for some years. The main culprit was the weather, the summer following the usual pattern for recent years. For the first few weeks it was favourable to play, but as soon as the turf approached peak condition the rains came and continued intermittently until the grass was too soggy to recover. However, decline in activity on the courts was also due to the loss of a number of regular players. In the last few years, the number of new Members has not kept pace with the steady depletion, a fate which appears to be common to many other clubs.

The Proudlock Competitions suffered from an abysmal lack of entries, and the cups were eventually won by Mrs. E. Milne-Redhead and Mr. M. Bentall after some hard-fought battles. Both finals were played on hard courts after the official end of the Club season.

Our newly appointed match-captain, Mr. M. Evans, had some difficulty in assembling teams for the fixtures, and our traditional foes from the Natural History Museum vanquished Kew twice at home. We also lost to Queen Elizabeth College on the college hard courts. Unfortunately the return match, when we had hoped to gain our revenge, was twice postponed owing to weather conditions. A friendly match arranged by the students against Wisley was drawn as the light failed.

The Club was unfortunate in losing the services of one of our keenest members, Mr. R. Claiden, who had been Treasurer for many years. At the Annual General Meeting Mr. D. Hunt was elected to fill this vacant office.

MARGARET STANT, Hon. Secretary.

STUDENTS MAGAZINE VISTA

During October, 1963, the third copy of the Students' Association Magazine Vista was published. Edition No. 4 will be published in April, 1964. Any Old Kewites who would like to receive a copy of this edition, or any of the previous issues, should send a postal order for 2/6s. to cover cost plus postage to : The Editor, Vista, c/o Curator's Gate, Royal Botanic Gardens, Kew, Richmond, Surrey.

This year we hope to publish a few of the lectures given for the Mutual Improvement Society in addition to the customary articles. However, the Editor would be pleased to receive any papers on subjects, horticultural or otherwise, for inclusion in future editions. These should be sent to the above address.

Miss K. M. BURLINGHAM.

MOUNTAINEERING CLUB REPORT—1963 SEASON.

The Kew Mountaineering Club has now started the third year of its existence and the support over the past year has been the most enthusiastic yet. The number of members enduring the long over-night drives to Wales being considerably higher than in the previous two years. The mountains of Snowdonia are the nearest hills of respectable height to London.

The conditions last winter were most frustrating for although the snowfalls made for good climbing, bad road conditions resulted in the long journeys being a very hazardous undertaking. This led to several cancellations in the early part of the year. However, four trips to Wales were carried out successfully between February and late March and those fortunate enough to take part had some very exhilarating experiences.

At Easter three Kewites headed for the Scottish Highlands. After spending two days in Glencoe the remainder of the holiday was devoted to climbing in Western Ross where some of the finest mountain scenery on the Scottish mainland is to be found. Time was set aside for a visit to the beautiful and remote Inverewe Gardens, owned by the National Trust for Scotland. Situated on the west coast with a latitude of almost 58° N the gardens are a magnificent example of the success which can be gained by the patient use of shelter belt subjects coupled with the moderating influence of the Gulf Stream. Who would have thought that a garden at this latitude could be a week ahead of Kew in the period of spring blossoming? We saw many Rhododendron species in full bloom, the most striking being *R. grande* and *R. barbatum*. Even *Magnolia campbellii* was perfect with its blooms which are at first a soft pink, against a clear blue sky.

On the following day we were "snowed-off" near Little Loch Broom and thwarted in our attempt on the ascent of An Teallach, one of the finest sandstone peaks in Scotland. We were in fact forced to return to the more gentle slopes of Kew where we found the weather much kinder.

Two further visits to Wales followed in May and June. In early August a small party of us headed once again for the eternal snows of the Austrian Alps. There we spent a fortnight climbing amidst magnificent surroundings, using the excellent Austrian Alpine Club huts for accommodation. The alpine plants were past their best but we were lucky enough to come across extensive colonies of *Gentiana verna*, *Saxifraga aizoides*, *Chrysanthemum alpinum* and *Androsace helvetica*.

To round off the year, two further visits were made to Wales, the last one being in November, to coincide with a meeting of the Aberystwyth University Mountaineering Club in the Cwm Silyn area of Snowdonia. Following the idea which was initiated last year a small group spent Christmas climbing in the Lake District, having the unusual luxury of a hotel as a base camp! In this way we found ourselves the possessors of the much talked of, but seldom experienced, "White Christmas". Plans are already afoot for a number of New Year visits to the snow-clad hills of Snowdonia and a return visit to Glencoe at Easter. There is no such person as a satisfied climber—there are too many peaks and not enough years in which to climb them.

A. D. SCHILLING, Hon. Secretary.

(Hon. Treasurer of the Guild and (Foreman of the Arboretum Nursery).

MUSIC CIRCLE.

During the past year the Music Circle has continued to hold its fortnightly meetings at the home of Dr. and Mrs. Metcalfe apart from a short summer holiday. The programme has been extremely varied, though concentrating upon the works of composers of the "Romantic" period. Variation has been found in ballet in addition to short operatic pieces. Attendance has been up and down since the summer break, but we hope that 1964 will bring new members along for an enjoyable evening's music. Our thanks go to Dr. and Mrs. Metcalfe for the lovely atmosphere in which we have our meetings and the delicious teas provided by Mrs. Metcalfe.

The Christmas Carols were abandoned this year as support in the previous year was very poor, but so many attended a carol service arranged by the Christian Fellowship that it is hoped to continue with Carol singing in 1964.

WEDDING BELLS

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

Miss J. E. Hawkins (Assistant Scientific Officer, Herbarium Staff) to Mr. Barwani (Voluntary Student of Zanzibar).

Mr. A. Pierce (1960) to Miss Georgina Louisa Edwards at All Hallows, Allerton, Liverpool, on 11th August, 1962.

Mr. James Rainey (1962) to Miss June Summers at Clough Presbyterian Church, Clough, Co. Down, on 15th December, 1962.

Mr. L. Wilkinson (1955) to Miss Rajwant Kaur Sandhu at Durham City, County Durham, on 20th April, 1963.

Mr. Clive Popham (Student) to Miss Julia Amanda Hyde-Trutch, on 6th December, 1963, at Kingston-on-Thames, Surrey.

All Kewites will be pleased to learn of the Wedding of Dr. C. E. Hubbard, Deputy Director, Keeper of the Herbarium (President 1956/57), and Mrs. F. K. Hubbard, which was celebrated in Swanage Parish Church on Monday, 20th May, 1963.

KEW GUILD TIE

These are now available, manufactured in terylene, and are priced at 15 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

STUDENT GARDENERS' ASSOCIATION.

Another successful year has passed, and one which has produced several changes. Besides putting a shirt on the students' back by being able to sell them at cost price, the Association has acquired a room in Descanso House to be shared with the Sports Club for meetings, storage of equipment and office work. For this we must thank Mr. Stenning for his kind co-operation.

With the advent of the 3-year course in October, 1963, the Civil Service Welfare Department has taken over the responsibility of finding accommodation for incoming students, leaving the final correspondence to the Secretary.

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

October, 1962 to March, 1963-J. B. Gaggini.

March, 1963 to October, 1963-J. B. Gaggini.

During the winter months the N.D.H. Study Group continued under the guidance of Mr. J. Simmons (Foreman, Tropical Pits), but unfortunately Mr. Brown (Assistant Curator), was unable to provide practical instruction. The results were disappointing, there being only three students obtaining a pass in the Intermediate.

As in previous years, a series of lectures were arranged which were given by the following external speakers during the summer of 1963 : -

- (1) "The Work of the Forestry Commission" by Mr. H. L. Edlin, of the Forestry Commission.
- (2) "Pot Plants" by Mr. J. Willan, Oaklands, Hertfordshire Farm Institute.
- (3) "Virus, and Virus Diseases" by Mr. L. Cropley, East Malling Research Station.
- (4) "Aspects of Parks Administration and Local Government" by Mr. K. L. Morgan, Secretary of the Institute of Parks Administration.
- (5) "Local Parks Administration" by Mr. R. A. Boddy, Superintendent of Ealing Parks Department.
- (6) "Weed Control" by Mr. D. K. Mann, Fisons Garden Centre.
- (7) "Plant Hunting in Iran and Turkey" by Admiral Paul Furze, R.N.

We are grateful for the response to our appeal for slides to add to the collection. We thank in particular Mr. A. Blanche of New York and also Mrs. Chandler, who arranged for us to have the large collection made by the late Mr. Chandler, of the University of California.* The slide collection has been placed under the control of the Photographic Society. Further donations of spare or duplicate slides from present or Old Kewites would be much appreciated as some subjects are still poorly represented.

* K.G.J. (1962), No. LXVII, Vol. VIII, p. 211 and photograph.

It now only remains for us to thank the Chairman, Mr. M. Griffin, for much hard work and negotiation on behalf of the members, and also our able Treasurer, Mr. D. Breach. We extend our thanks to the Committee Members. Finally we wish the Association every success and good fortune in 1964.

MISS J. A. HYDE-TRUTCH. (now Mrs. Popham—See Wedding Bells).

SUBSCRIPTIONS (15/-) ARE PAYABLE ON 1st JANUARY

IF YOU HAVE NOT ALREADY PAID FOR 1964—PLEASE DO SO Bankers Order Forms are available on request

It would greatly assist the Hon. Treasurer if Overseas Members would pay by British Money Orders

COLOURED ILLUSTRATIONS OF ARMS AND BADGE

A limited number of the coloured illustrations of the ARMS and BADGE as appeared in last year's "Journal" (Vol. VIII, No. LXVII, 1962) are available from the Hon. Editor, priced three shillings and sixpence Please make cheques, P.O.'s, etc., payable to THE KEW GUILD

KEW GUILD GENERAL ACCOUNT, 1963

RECEIPTS	£	s.	d.	EXPENDITURE	£	s.	d.
Balance from 1962 a/c	505	10	2	Hon. Secretary's expenses		4	
Annual subscriptions and arrears	300		ĩ	Hon. Treasurer's expenses		12	
Donations	14		3	Hon. Editor's expenses		4	
Additional life subscriptions		15	ŏ	Deficit on Annual Dinner		18	
Advertisements in 1962 Journal		5	õ	Payment of 50% Christmas Card	15	10	5
Sale of Back Numbers		12	2	Profit to Student Gardeners'			
Sale of Christmas Cards		15	5	Association	2	13	7
Grant of Arms and Badge	22	1	6	Ten Receipt Books		7	7
Interest on Post Office Savings Bank	12	8		600 A.G.M. Leaflets		15	
Sale of 6 Colour Plates at 3/- each		18		1,000 Circulars/Bankers Order	1	15	0
Transferred from Benevolent Fund	0	10	0	Essential	1	15	0
Account	5	5	0	900 Badge and Tie Leaflets		2	
Dividends—£26 6s. 3d. $3\frac{1}{2}\%$ War	5	5	0	870 Copies of Guild Journal	343		
Stock	n	18	4	600 Copies of Revised Rules		16	
Dividends-£500 3% War Savings	0	10	-			10	
-Sir A. W. Hill's bequest	15	0	0	2 Sets of 5 colour blocks from	4	10	0
Dividends—£220 $4\frac{1}{2}\%$ Defence	15	0	0		69	3	4
Bonds-W. H. Judd's bequest	0	18	0	870 Prints on White Art Paper		17	
Dividends— $\pounds 210$ $3\frac{1}{2}\%$ Defence	9	10	0	Extra printing of "Kew Guild"	10	17	0
Bonds (Jubilee Fund)	7	7	0	in red and black	2	10	0
Dividends—£10 4% Defence Bonds	/	1	0	130 Leaflets for Journal advertis-	3	10	U
(Jubilee Fund)	0	8	0		2	0	0
Dividends—£295 3% Savings Bonds	0	0	0	Postage of Journals		13	
(Jubilee Fund)	0	17	0		9	7	6
Dividends—£395 41% Defence	0	17	0	Christmas Cards and Envelopes	30		3
Bonds (Jubilee Fund)	17	15	6	Wreath for a deceased Kewite			0
Dividends—£10 4½% Defence Bonds	17	15	0	Grant of Arms and Badge ex-	2	10	U
(Jubilee Fund)	0	2	11		60	18	6
	0	4	11	Balance in Post Office Savings	09	10	0
Dividends—£165 5% Defence Bonds	E	10	0		241	11	2
(Jubilee Fund)	3	10	U		237		4
				Balance in Barclays Bank		7	7
				Cash in hand	0	/	-
£1							3

KEW GUILD CAPITAL ACCOUNT

LIABILITIES	£	s.	d.	ASSETS
Life subscribers :				£300 Post Office Savings Bank
106 at £1 at half rate	53	0	0	£26 6s. 3d. 3½% War Stock
105 at £2 at half rate	105	0	0	£500 3% War Savings-Sir A. W.
80 at £3 3s, 0d, at half				Hill's bequest
8 at £5 5s. 0d	42	0	0	£220 41% Defence Bonds-W. H.
Assets exceed liabilities	1,070	9	7	Judd's bequest
				Valuation of Journals in stock
				Balance in Bank

£1.396	9	7

WATSON MEMORIAL EDUCATIONAL FUND

RECEIPTS	£	s.	d.
Balance from 1962 a/c Dividends on £100 3½% War Stock Interest on Post Office Savings Bank			6 0 9
	£155	10	3

EXPENDITURE	£	s.	a.
Refund on Examination Fees		_	
Balance in Post Office Savings Bank	166	10	3

£166	10	3
2100		

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£ s. d.

500 0 0

220 0 0

£1,396 9 7

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(Assets-£100 31/2% War Stock and Balance in Bank, £166 10s. 3d.)

MATILDA SMITH MEMORIAL PRIZE FUND

RECEIPTS	£	s.	d.	EXPENDITURE	£	s.	d.
Balance from 1962 a/c	31	3	4	Prize awarded to Mr. M. Theron	5	5	0
Dividends on £50 3% Savings Bonds					28	2	4
Interest on Post Office Savings Bank	0	14	0				
				-			
	£33	7	4		£33	7	4
	-	-		-		-	

(Assets-£50 3% Savings Bonds and Balance in Bank, £28 2s. 4d.)

DÜMMER MEMORIAL PRIZE FUND

RECEIPTS	£	~ ~		EXPENDITURE	£	S.	d.
Balance from 1962 a/c		16		Prize awarded to Mr. J. Gaggini	58	5	0
Dividends on £70 4% Funding Loan Interest on Post Office Savings Bank		8	2	Balance in Post Office Savings Bank	58	1	1
	£63	6	1		£63	6	1
				-			

(Assets-£70 4% Funding Loan and Balance in Bank, £58 1s. 1d.)

THE PROUDLOCK PRIZE FUND

RECEIPTS	£	s.	d.	EXPENDITURE	£	S.	d.
Balance from 1962 a/c	5	13	3	Prize awarded to Mr. K. Fellows	3	3	0
Dividends on £25 4% Funding Loan	1	0	0	Balance in Post Office Savings Bank	3	12	1
Interest on Post Office Savings Bank	0	1	10				
	£6	15	1		£6	15	1
	-				-		

(Assets-£25 4% Funding Loan and Balance in Bank, £3 12s. 1d.)

THE BENEVOLENT FUND

RECEIPTS Balance from 1962 a/c	103	1	6	EXPENDITURE Donation to an Old Kewite	£ 5	s. 5	d. 0
Receipts or donations Interest on Post Office Savings Bank	2 2		0 5	Donation to Royal Gardeners' Benevolent Fund Transferred to General Post Office	5	5	0
				Account Balance in Post Office Savings Bank	5 91	5 12	0 11
	£107	7	11	-	£107	7	11

KEW GUILD WAR MEMORIAL FUND

RECEIPTS	£	s.	d.	EXPENDITURE	£	s.	d.	
Balance from 1962 a/c Interest on Post Office Savings Bank				Nil Balance in Post Office Savings Bank	20	11	6	
	£20	11	6		£20	11	6	
		-						

KEW GUILD DINNER, 22nd MAY, 1963

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.	
Sale of Tickets-		143 Dinners at 21/6	153 14 6	5
104 at £1 6s. 0d	135 4 0	1 Commissionaire's Dinner at		
34 at 18/	30 12 0	10/6	0 10 6	5
3 Guests		Gratuities	15 8 6	5
Commissionaire		Drinks and Cigar for Guests	2 17 9)
Toastmaster		200 Menu Cards	5 9 0)
Deficit	15 18 3	250 Dinner Tickets	0 14 0)
		1 000 Circulars	1 15 0	
		Commissionaire's Fee	1 5 0)
	£181 14 3		£181 14 3	3
				i.

KEW GUILD TEA, held at Kew, SATURDAY, 31st AUGUST, 1963

		REC	EIP	TS	£	s.	d.			
60	Members	paid	4/-	each	for	tea	12	0	0	Т
							£12	0	0	

EXPENDITU	RE		£	s.	d.
To Mayfair Kitchen Cate 60 Teas at 4/- each	erers I		12	0	0
		_	£12	0	0

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KEW GUILD JUBILEE PERMANENT SECURITY FUND

RECEIPTS £ s. d.	EXPENDITURE		£	s.	d.
Carried forward from 1962 a/c. 1,078 3 5	Invested-				
Donations from 6 Members re-	3% Defence Bonds		295	0	0
received and gratefully acknow-	3½% Defence Bonds		210	0	0
ledged 11 16 0	4% Defence Bonds		10	0	0
	4 ¹ / ₂ % Defence Bonds		395	0	0
	5% Defence Bonds		165	0	0
	$4\frac{1}{2}\%$ Defence Bonds		10	0	0
	Cash in hand		4	19	5
$\pounds 1,089$ 19 5		£	1,089	19	5

£1,089 19 5

KEW GUILD CHRISTMAS CARDS, SALES FOR 1963

RECEIPTS	£	s.	d.	EXPENDITURE £ s.	d.
1,883 New Cards at 4d. each	 31	7	8	2,000 Greetings Cards 19 3	6
511 Old Cards at 3d. each	 6	7	9	2,100 Envelopes 4 1	11
				100 Envelopes 0 4	7
				Purchase Tax 4 6	3
				Block 2 12	0
				Student Gardeners' Association 3 13	7
				Balance 3 13	7
	£37	15	5	£37 15	5

GRANT FOR ARMS AND BADGE FUND

	REC	CEIPTS	£	s.	d.	EXPENDITURE £ s.	d.
1961 1962 1963	Receipts Receipts Receipts			12 16	036	1961 Expenditure 220 1962 Expenditure - - 1963 Expenditure : - -	0 0
1905	neeenpus				Ū		5 0
						Arms 12 1 Black and White Drawings of	2 0
						Badge 3	3 0
						Certified Painting of Arms 16 1	6 0
						Certified Painting of Badge 51 3 Blocks of Main Crest and 2	
						Blocks of Second Crest 7 1	5 0
						Framing of Letters Patent 15 1	5 0
						630 Prints of Arms and Badge	5 5
						on White Art Paper 7 1	7 6
						Balance 45	1 3
			£334	19	9	£334 1	99
			Section Section	-			Contraction in succession

Audited and found correct-A. S. WOODWARD and J. E. S. SOUSTER, Hon. Auditors.

NOTES AND GLEANINGS

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

AWARDS

The following awards have been made by Her Majesty The Queen during 1963 : —

O.B.E. Mr. G. R. Groves, A.H.R.H.S. (1937).

M.B.E. Mr. G. G. Cook (1945).

Mr. S. A. Pearce, A.H.R.H.S., Assistant Curator, Kew.

B.E.M. Mr. E. Hopper (1925).

Mr. B. Bruty, Foreman, Ferneries.

(Awarded January 1st, 1964).

Mr. T. Matthews was the winner of a competition organised by Messrs. En-Tout-Cas Co. Ltd.

Mr. V. S. Summerhayes, O.B.E., has been awarded a Fellow's Gold Medal by the Malayan Orchid Society. It was presented to him at the Royal Horticultural Society's Show on 22nd October, 1963.

Mr. G. H. Pring (1906)—" Superintendent Emeritus". A title conferred upon him by the trustees of the Missouri Botanical (Shaw's) Garden in recognition of his long career of service (57 years) at this establishment.

EXAMINATION SUCCESSES.

NATIONAL DIPLOMA IN HORTICULTURE, 1963.

Honours : —

Mr. B. Humphrey (1961).

Finals : ---

Mr. R. Adams (1959). Section I—General Horticulture. Mr. H. P. Barnes (1960). Section VI—Horticulture in Parks.

Intermediate : —

Mr. R. Anwyl (1962), Mr. D. Breach (1963), Mr. J. Elsley (Present Student), Mr. C. M. Duncan (Present Student).

CERTIFICATE OF ARBORICULTURE.

Mr. A. D. Schilling (Foreman in Arboretum Nursery, Kew).

Mr. D. Breach (1963).

Mr. D. Tabor (1962).

Mr. P. H. Bridgeman (1964).

DIPLOMA OF INSTITUTE OF PARK ADMINISTRATION,

Intermediate : ---

F. A. Overland (Present Student).

A. Pedley (1963).

ACTIVITIES OF KEWITES.

The Director, Sir George Taylor, attended the 50th Anniversary celebrations of the National Botanic Gardens of South Africa, Kirstenbosch, and of the Botanical Society of South Africa. His extensive tour of South Africa took him through the Cape, Natal, Zululand, Swaziland, Transvaal and the Orange Free State. He was one of a party of 45 botanists from 21 nations who visited interesting botanical localities and scientific institutions. On the return journey he stayed in Salisbury, Southern Rhodesia, to open the new Botanic Garden and Herbarium at Alexandra Park and made a further stay at Khartoum to visit the Botanical Department of the University and the Botanic Garden. He met many Kewites in various parts of South Africa.

(Please see the photo in this issue—The Director, Sir G. Taylor, with Old Kewites in South Africa).

Mr. R. D. Meikle gave a lecture on "Plant Hunting in Cyprus" in the Royal Horticultural Society's New Hall, Westminster, on 30th December, 1963. The lecture was primarily for young persons up to the age of 18 years.

The following members of the staff attended the A.E.T.F.A.T. Conference at Geneva from 9th-12th September : Mr. E. Milne-Redhead, Mr. J. P. M. Brenan, Mr. J. B. Gillett and Mr. F. N. Hepper. Afterwards they worked at the Florence Herbarium from 13th-14th September.

Mr. J. B. Gillett was one of the botanists on the Jordan Expedition, 1963. The party consisted chiefly of ornithologists and was led by Guy Mountford and Max Nicholson. Working in Jordan from late April to early May, the members prepared a report for the International Union for the Conservation of Nature and the World Wildlife Fund on the best method of protecting animal and plant species which are threatened with extinction in this region. Particular attention was paid to the Azraq Oasis, which is an important "staging post" for migrating birds, and to the highlands of Edom around Petra.

Dr. F. M. Jarrett has been promoted to Senior Scientific Officer with effect from 5th April, 1963.

Dr. and Mrs. C. R. Metcalf attended a Garden Party at Buckingham Palace on 23rd July as representatives of the Linnean Society.

On the 18th March, 1963, a very unusual lecture on "Horticulture in Israel and its Water Requirements" was given by Student Gardener, A. Armony. It will be remembered by his exceptional enthusiasm and the painstaking way that he provided photographs, slides, herbarium sheets, irrigation equipment, flower depicting stamps and a display of wild flowers in bloom that he had arranged to be sent by air from Israel. Mr. D. A. Reid was elected President of the Richmond Scientific Society for the coming year at its Annual General Meeting on 11th December, 1963. We steal into 1964 to congratulate Mr. Reid on his promotion to the rank of Principal Scientific Officer from 1st January, 1964.

OLD KEWITES ABROAD.

Mr. H. Bruins-Lich (1928), Director of Parks and Recreation, Pretoria, has offered a silver Floating Trophy to be awarded to the registered pupil who produces the best article of horticultural interest, this article to be read at any future Conference of the Institute of Park Administration (South Africa). The Trophy is to be known as the "Institute Cup", and winners are to receive a miniature for retention.

Mr. J. P. Van der Breggan (1961) has returned to the Republic of South Africa to take up an appointment of Horticulturist with Pretoria Parks Department.

Mr. Cedric C. van Ryneveld (1938) was elected President of the Institute of Park Administration (South Africa) for 1963. Mr. van Ryneveld joined the Port Elizabeth Parks Department as a pupil under the late Mr. F. R. Long, who pioneered pupil horticultural training in South Africa. Among the many noteworthy features of his career we record that while a student at Kew he was employed by the South African Government to design the South African Garden exhibit at the World Exhibition held in Glasgow in 1936. Mr. van Ryneveld arrived in England on leave from his post with the Johannesburg City Parks Department on the day that war was declared. He joined the British Army to become one of the first batch of volunteers to be commissioned in the Royal Engineers in December, 1939. He served in two theatres of war as a Company Commander with his regiment.

As Deputy Director of Parks and Gardens in the Parks, Recreation and Beaches Department, Mr. van Ryneveld delivered a noteworthy paper to the 20th Institute Conference held in East London in February, 1963. He showed the progress of technical training in Durban and the part which the Meyrick Bennett Park Horticultural Training Centre has in this work.

The following Old Kewites are among those who were officers in the Park Administration during 1963 in addition to Mr. van Ryneveld : ---

Senior Vice-President ... Branch Representative

for Natal Co-opted Member ... Branch Chairman,

Cape Eastern District Branch Chairman, Natal Branch Hon. Secretary, Natal H. Bruins-Lich (1928)-Pretoria

F. W. Thorns (1928)—Durban

P. W. Page (1938)—Johannesburg

W. Everitt (1928)—Queenstown F. W. Thorns (1928)—Durban

A. V. Rippon (1956).

NEWS FROM JOHANNESBURG PARKS DEPARTMENT.

Mr. M. Theron (1963), who won the C. P. Raffill Prize in 1963 and who was not able to be at the Dinner in 1963, informs us that he has bought the following books from his prize money : Garden Design and Landscape of Roads by Sylvia Crowe. He also won the Matilda Smith Prize and bought Trees for Town and Country by Badmin and Calvin, and Landscape for Living by Garnett Ecklio.

Mr. M. Theron holds the post of Horticulturist. He is in charge of a new 25-acre rose garden in Emmarentia, a district in the N.W. suburbs of the City.

Mr. G. E. D. Briscoe (1961) holds the post of Acting Assistant District Officer.

Mr. A. Gunn (1961) is Assistant District Officer.

During March, 1963, a letter arrived from Mbulu, Tanganyika, it was from Mrs. Rachel Nicholson (née Mrs. R. A. Floyer, 1958). In the small remote town of Mbulu, Mr. and Mrs. Nicholson live with their son and a baby daughter in a wonderful climate. The town is 6,000 feet above sea level. In their garden they grow such plants as violets and sweet peas in herbaceous borders with poinsettias and hibiscus. However, Mrs. Nicholson served in a variety of departments whilst at Kew as a student and we are confident in her ability to "cope" with such a variety.

Mr. D. Ralston left Kew for Bermuda in November, 1963, where he has taken the post of Head Gardener, Castle Harbour Hotel, Bermuda.

Mr. Colin E. T. Shepherd (1955) took up the post of Parks Superintendent to the Municipality of Livingstone, N. Rhodesia, on the 1st October, 1963. The Municipality is seven miles from the Victoria Falls and is therefore quite a large tourist centre. Mr. Shepherd extends an invitation to any Old Kewites who visit his area to look him up.

In September, 1963, Mr. H. F. Riebe (1906) wrote to inform us that he has retired from the firm of Henkel-McCog of Germantown, Phila. Pa, which he had helped to found 29 years ago. He and his wife have sold their beautiful home and large garden on Spring Avenue, Cekins Park, and are now living in a modern apartment house of 300 apartments. But Mr. Riebe has no thoughts of retirement. At the age of 83 he has started business as a consultant. We send our greetings to Mr. and Mrs. Riebe.

Congratulations to Mr. I. H. Burkill, a member of the Kew Staff from 1897-1900, and at one time Director of Singapore Botanic Gardens, who was 93 on 18th May, 1963.

Mr. L. Laking (1941) has been promoted from Assistant Director to Director of the Royal Botanic Gardens, Hamilton, Canada.

Mr. C. N. Warren (1912) wrote in to us recently. At the age of 73, with the aid of his wife Anita and son, Mr. Warren still manages his own business and is the largest retail grower of Geraniums, Pelargoniums, Fuchsias and fibrous-rooted Begonias in Northern California. Mr. Warren has sent in a lovely colour photograph of one of his geranium glasshouses in full bloom together with himself, his wife and son.

Cyril Warren left Kew as Assistant Orchid Collector with Eugene Andre of Rothschilds. At the beginning of World War I he was sent to Nigeria and was responsible for building the first mechanised palm oil extraction plant on the Cross River, Nigeria. In 1923 he went to Canada and so to the United States and California. The Warrens took the major part in the formation of the Orchid Society of California.

George H. Pring (1906) retired from the post of Superintendent of Missouri Botanical (Shaw's) Garden in January, 1963, after 57 years at this famous establishment. In recognition of his long career of service the trustees have conferred upon him the title of "Superintendent Emeritus". The official Bulletin, February, 1963, Vol LI, No. 2, is made up of a special "George H. Pring Retirement Issue". It contains many details and photographs covering his distinguished career. Perhaps to pick out any one feature would present an unbalanced picture, yet mention must be made of the interesting Group Photograph taken at Kew in those far-off days. A photograph of Mr. and Mrs. Pring after they were married in 1910 (see Journal of that issue) is a very nice feature, especially when compared with that taken at their golden wedding anniversary in December, 1961, when they celebrated with a trip to Nassau given them by their children. There are two fine photographs of Pring hybridising Water Lilies. Perhaps at this stage we can ask the reader to refer to p. 827 of the 1950 Journal, for Mr. Pring was President of the Guild 1950/51.

Congratulations to Mr. (1955) and Mrs. Wilkinson upon their marriage (see Wedding Bells). Mr. Wilkinson writes that he is very happy to be back on the Gedong Estate where he first started when he left Kew in 1955. He has a new bungalow built on modern lines.

Mr. D. Sayers (1962), who was awarded the Bowles Scholarship,* has secured the position of Technical Officer on a Phytochemical Survey in New Guinea.

Mr. Sayers set off to see the world in the autumn of 1962, leaving Kew with a small party in a Land Rover, travelling by the overland route to India. In Delhi he started off on his own with a trip to Kashmir and later moved south through Bangalore.

* K.G.J., 1962, Vol. VIII, No. LXVII, p. 188.

arriving in Ceylon for his first Christmas abroad. With his base at the famous Peradeniya Botanic Garden he saw much of the floral beauty of the Island. In March, 1963, he set sail for Australia and from Adelaide Botanic Gardens he went on many trips into the bush. This culminated in an expedition to the Centre of Australia to collect in the Musgrove and Everard ranges in September. From Melbourne he visited Tasmania before securing his present post.

Many Old Kewites who follow the results of the "Round the Gardens" race will learn with interest that the ex-Kew students at Adelaide Botanic Garden have decided that this feature race should be an annual event. Mr. T. R. N. Lothian (1940), the Director, gave news of this in a recent letter—to quote : "David Sayers has now left us after five months. You may be interested to know, however, that the ex-Kewite students who were here decided that we should try to establish a "race around the Garden", which was done. David Sayers very kindly presented a cup for a perpetual trophy. The competition is open to all members of the staff although the cup is awarded to the first trainee who passes the finishing post. It is to be regretted that those ex-Kewites of the older generation and even the present generation, viz. David Sayers and Tony Whitehill, did not participate. Time marches on and distance takes its toll ! !

Mr. Sayers is hoping to obtain a position with the Forests Department in Lae after spending 3-4 months at his present post."

Mr. T. Whitehill (1962) has recently completed replanting the large bush house—the Simpson House at Adelaide Botanic Garden. Giving this news Mr. Lothian also commented upon the extended dry spell they were experiencing. Writing on 12th December, 1963 : "We have almost forgotten what rain is like, having had very little since the cessation of our winter rains in September. Temperatures have already climbed into the mid 90's with its consequent effect on tender plants." He also gave news of new developments : "Our 160 acres or so at Mt. Lofty, about ten miles from Adelaide, are slowly developing. There is still a certain amount of pioneering work to be done but it is to be hoped that we will commence serious planting next year. We have three nurseries in the region with about 1,200 plants, many of them up to 10-12 ft. high. These at least will be seen when they are planted out."

Mr. Lothian passes his kindest regards to all Kewites.

The 1959 issue of the *Journal* (Vol. VII, No. LXIV), the Bicentenary Production, contained a copy of a photograph of "Three of the First Lady Gardeners at Kew (1898)"—opposite page 705. To our members their entry into Kew was a landmark and they are often referred to when the history of Kew is related. We were, therefore, delighted when we heard from Miss Annie Hutchings, sister to the late Alice Hutchings, one of the first of these enterprising ladies and one of the three in the photograph. Alice Hutchings was later married to Mr. W. Patterson, a Kewite (1901) who is one of our pillars of strength at Kampala, in Uganda. The letter and the newspaper cutting which Miss Annie Hutchings sent us recently carry the story forward from these early days at Kew to the present. To quote : "Mr. and Mrs. William H. Patterson were married in 1902 and spent most of their lives abroad. Under the Colonial Civil Service, Mr. Patterson obtained a post in the West Indies. He was transferred to the Gold Coast (Ghana) in 1912. Twelve years later he was responsible at the Wembley Empire Exhibition for the Gold Coast section. For this he was awarded the M.B.E.

In 1930, upon retirement from the Colonial Service, his concern for African welfare and advancement led him to accept voluntary work for the Church Missionary Society in Uganda. With the assistance of African labour he has transformed uncultivated surroundings at Namirembe Cathedral into a garden of rest and beauty. This has been work of rewarding interest for over thirty years. Mrs. Patterson's death in 1944 occurred suddenly whilst staying in England with their daughter.

The following passage appeared in *New-Day*—8th March, 1963—a Nairobi publication : —

"Sir, how many people in Kampala have taken an evening drive or walk up the hill to Namirembe to enjoy the quiet and beauty above the noise and warmth of the city? I wonder how many people realise the number of years of loving work Mr. Patterson has put into the beautiful garden and graveyard to be found there? So freely has he given of his time and money, only very few people know what a tremendous contribution he has made, in his quiet way, to the Church of Uganda. Mr. Patterson is to be found most evenings tenderly caring for his plants and flowers, and early in the morning measuring the rainfall, if any, and carefully recording the same. Mr. Patterson is now in his ninety-first year and still on "active service," and I for one would like to say a big thank you to him for the joy and beauty I personally have enjoyed in his garden. Formerly I worked at Namirembe for the Anglican Church and Mr. Patterson was always available with flowers and advice."

In a more recent letter Miss Annie Hutchings writes : ---

"I started my own career under Miss Gertrude Cope's tuition and worked under her for over eight years. I also knew Mr. and Mrs. Shewell and their young family when working near their home outside Manchester. Those three women formed a life-long friendship and a keen interest in horticulture. I was pleased to see recently in the *R.H.S. Journal* Gertrude Cope's name recorded in the second place of passes in the First N.D.H. Preliminary, 1914.* A pioneer for many other women who have taken up horticulture as a career. I am still gardening in my spare time, in the home garden here and enjoy excellent health. With every good wish to you in the year 1964."

We reply with our very sincere wishes to a good friend of the Guild.

* Journal of R.H.S., Vol. LXXXVIII, Part IX, p. 384.

THE ACTIVITIES OF KEWITES IN THE INSTITUTE OF PARK ADMINISTRATION.

Mr. F. H. Eul (1935), Superintendent of Bexley Parks Department, was elected as President 1963-64.

Mr. W. B. Pritchard (1925) has been elected Vice-President.

Mr. E. W. B. Gale (1932) now becomes Immediate Past President.

(This and some of the items below were taken from the pages of the Journal of Park Administration, with kind permission.)

Mr. J. Watson (1949) has been appointed Deputy Parks Superintendent to the City of York Parks Department. Mr. Watson was previously Park Superintendent with Wortley Rural District Council. He came to Kew after serving with the R.A.F. during the war.

During August, 1962, Mr. E. W. B. Gale (1932), as President of the Institute of Park Administration, visited America to attend the 64th Annual Conference of the American Institute of Park Executives.

Mr. J. Halhead (1954), who was Senior Technical Assistant, Southend Parks Department, has been appointed Deputy Parks Superintendent to the Borough of Uxbridge. Before going to Southend Mr. Halhead was Senior Foreman, Redcar Parks Department, and before this had held the post of Nursery Foreman, Colchester Parks Department.

Mr. I. M. Heughes (1951) was appointed Superintendent of the Parks and Allotments Department of the Aldridge Urban District Council early in 1963. Mr. Heughes began his horticultural career as an apprentice.

Mr. C. R. Stock (1927), Superintendent of Parks, Beckenham, has been selected Rotary International Representative and Chairman of District 112 (Kent and East Sussex). Mr. Stock is probably the first Parks Superintendent to hold the office of R.I.R., and in connection with this position is attending the Rotary International Assembly at Lake Placide, U.S.A.

Mr. D. T. M. Storer (1959) is now employed by the Blackpool Corporation Parks Department as Horticultural Assistant.

Mr. J. Aldous (1962) since leaving Kew has been working for the Stevenage Development Corporation in the capacity of Landscape Assistant under the Direction of a Landscape Architect. Mr. F. G. Dayson (1948) is a Clerk of Works (Landscape) to the Corporation. Mr. H. H. Parker (1952) took up the post of Deputy Parks Superintendent, Swansea Parks Department, on 1st March, 1963.

Mr. W. Porter (1930) has been appointed Parks Superintendent to the City of Southampton. He has taken over from another Old Kewite, Mr. R. Binnington (1924).

Mr. M. Tyas (1963) took up the post of Senior Gardener at Tatton Park, Cheshire, in July, 1963.

Mr. A. Pedley (1959) commenced duties as Parks Superintendent, Borough of Workington, in August, 1963. Mr. Pedley left Kew to become propagator to Paddington Borough Council before taking the position as General Foreman to Aldridge Urban District Council. Successful in the Intermediate Examination for the Diploma in Park Administration in 1963 he is hoping to sit for finals in 1964.

Mr. T. N. Jayman (1960) was appointed Junior Technical Assistant with the County Borough of Bolton Parks Department and commenced his duties in June, 1963.

Mr. J. D. Helm (1948) was appointed Deputy Parks Superintendent at Llandudno in November, 1963.

Mr. P. S. Brooks (1963) has been appointed Landscape Assistant with Welwyn Garden City and Hatfield Development Corporation.

Mr. G. J. Leith (1937) has been promoted Superintendent at Twickenham upon the retirement of Mr. T. Tuck. Mr. Leith was Deputy Superintendent at Twickenham and he has been with Twickenham Council since 1947.

Mr. J. D. Cameron has taken the post of Nursery Foreman in Harrogate Parks Department. He commenced work on 8th April, 1963.

Mr. T. J. Seager (1955) was appointed Director of Parks, Cemeteries and Crematorium of the County Borough of Oldham in December, 1962. His previous position was Deputy Director of Parks and Cemeteries, Newcastle-upon-Tyne, a post which he held for two years.

Mr. A. E. Goodale (1956) was appointed Deputy Parks Superintendent to the Borough of Twickenham in November, 1963.

The following Kewites successfully completed Course 25 (1963) at the College of Park Administration, The Grotto. (The post taken after completing the course is also given) : -

B. Dodds (1961), Technical Assistant, Hull Parks Department.

- *B. W. Taber (1962), Technical Assistant, Wimbledon Parks Department.
- R. T. Harrison (1962), Junior Technical Assistant, Bournemouth.
- D. H. Holmes (1962), Technical Assistant, Wembley Council Parks Department.
- T. Matthews (1962), Superintendent, Blaydon.
- M. Foote (1961), Technical Assistant, Beckenham.
- M. Baron (1962), Technical Assistant, Burnley, Yorks.
- G. Cook (1961), Technical Assistant, Sheffield Parks Department.

All passed with distinction.

* G. Leaver (1963) took this post at Wimbledon when he left Kew but he resigned for the course at the College of Park Administration and his post was taken by B. W. Taber.

The following Old Kewites have commenced the 26th Course : R. C. A. Barnett (1962), H. Bell (1963), D. J. Breach (1964), M. F. Griffin (1963), J. D. Higham (1963), G. J. Leaver (1963), R. C. Ward (1963).

Mr. Trevor Preston, who attended the 1962 Course at the College of Park Administration, The Grotto, obtained a Certificate with Distinction. He was appointed as Junior Technical Assistant to the Borough of Ealing Parks Department in January, 1963, and was promoted to Senior Technical Assistant with this Department in the following April.

Mr. J. K. Burras, N.D.H. (1954) has been appointed Superintendent of the University Botanic Garden, Oxford. Many will be interested to learn that Burras served his apprenticeship in Hayes Hardy Plant Nurseries* before moving to Bodnant and then Kew.

It was in 1954 that he moved to Oxford Botanic Garden as Greenhouse Foreman under Mr. G. W. Robinson. He was promoted to General Foreman and Horticultural Liaison Officer to the University Botanic School. His duties included general advisory work on horticultural matters with lectures and practicals on plant reproduction to undergraduates reading Botany. He was also responsible for the Botany School Genetic Garden, a unique and particularly interesting project.

Exciting new projects are in hand and these include the development of the Harcourt Arboretum at Nuneham Courtenay, 7 miles south of Oxford. It is a predominantly acid area of approximately 30 acres and containing some very fine conifers.

* See K.G.J., 1959, Vol. VII, No. LXIV, p. 706, and photograph op. p. 704.

Mr. R. C. A. Barnett (1962) made a trip to America last summer and met the following Kewites : Mr. George Pring (1906) of Missouri Botanic Garden and Messrs. R. C. Bauman (1962) and G. W. J. Ford (1927), both of Longwood Botanic Gardens. Mr. Barnett is now Assistant Technical Officer, Roads Beautifying Association.

Mr. J. N. Jayman (1962) has been appointed Junior Technical Assistant to the Bolton Parks Department. He is under Mr. T. E. Clark (1924). Many will remember Mr. Jayman's prowess on the field as a cricketer.

Congratulations to Mr. R. Badgery (1906) who has been elected the captain of the Paignton Bowling Club. Mr. Badgery, who is 81, recently wrote of the late Fred Cousins[†] and recalled that they often played bowls together on the Torquay Green.

Mr. J. D. Snowden, Vice-President 1960/62, has sent an interesting group photo of the Uganda Kewites and wives in front of a "Pepper Tree"—*Schinus molle* by his bungalow in Kampala. It was taken about 1923. In the back row are—Wagg, D. Halkerston, E. J. Smith, C. Hazel,[†] W. G. Hunter and Marshall. In the front row are—Mrs. D. Halkerston, F. W. Hall, Mrs. Snowden, Mr. Snowden and Mrs. Marshall.

Marshall was a pony boy in the Gardens helping his father. He attended lectures and obtained the Kew Certificate for those he attended. The Uganda Branch elected him as an honorary member.

Other photos sent in by Mr. Snowden included one of himself standing among Sorghums cultivated in his own garden at Barton-on-Sea.*

These form valuable additions to our Records Section.

Mr. H. S. Marshall, who retired from the post of Librarian in July, 1961 (p. 62, *K.G.J.*, 1961), and who continued to work on the Bentham-Moxon Trust staff, has now left Kew to live in Colchester, Essex.

Mr. J. Gaggini (1963) started his appointment as Head Gardener of the National College of Agricultural Engineering, Silsoe, Bedfordshire, on 1st January, 1964. He will be responsible for the landscaping and lay-out of the grounds of this new institution.

Mr. E. Verdun Wray (1948) continues to play a very active part in the Lincolnshire Naturalists' Union, Junior Section. Mr. Wray also gave an illustrated talk at the Annual Exhibition and Meeting of this Society in April, 1963. It was entitled "Young Naturalists in Lincolnshire".

† See obituaries in present issue.

* K.G.J. (1960), Vol. VII, No. LXV, p. 762.

Mr. W. J. C. Lawrence (President of Guild 1961/62) retired from the John Innes Institute in September, 1963. We wish him many happy years in his new home in Dorset.

Mr. M. A. Johnston (1960) is now the fifth Landscape Representative of Messrs. Waterers Son & Crisp Nurseries, Bagshot.

In a letter sent at the end of May, 1963, Mr. Matt Nicholls (1897) states : "I was interested in the removal of the Iron Room. I remember the lectures we received, especially from that distinguished old gentleman Mr. Baker. He lectured upon such orders as Ranunculaceae. At the end of his talk one can see him picking up his 'Billy-cock hat' with a good night to all. I remember Mr. J. Gribble (K.G.J., 1963, Vol. VIII, No. LXVII, p. 193). Being a native of Cornwall, at my time at Kew the following Cornishmen were employed there : Messrs. J. Gribble, W. Walters, Berryman, H. Williams and W. N. Winn (Clerk at Curator's Office) and myself. My regret is that I am unable to get about, otherwise no complaint for 84."

HORTICULTURAL EDUCATION IN KENT.

Mr. E. H. Worraker (1954) kindly sent us the following news of activities of Kewites in the horticultural world in Kent : —

Mr. W. Corbett (1925) is the Organiser for Horticulture in the Extra Mural Department of the Kent Farm and Horticultural Institute. The work of this department expands every year and provides facilities for evening class, lectures, apprenticeship schemes and growers' short courses all over the county.

Mr. A. Porter (1959) is Rural Science Teacher at the Aylesford County Secondary Modern School.

Mr. L. Pemberton (1954) is Lecturer in charge of the propagation department at the Kent Farm and Horticultural Institute, Swanley and the Supplementary Course in Plant Nursery Practice and Management.

News Flash—Mr. L. Pemberton has been appointed Supervisor of Studies at Kew—Congratulations !

Mr. R. H. Wildy (1940) is the County Organiser for Rural Studies in School. He is also Organiser for teachers short courses in rural science. Also, Mr. Wildy is Vice-President of the Maidstone and Mid-Kent Horticultural Societies.

Mr. E. H. Worraker (1954) (as mentioned in the 1962 *Journal*, p. 191) is Senior Lecturer in charge of the Fruit Department at the Kent Farm and Horticultural Institute, Sittingbourne.

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EDUCATIONAL SECTION

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MUTUAL IMPROVEMENT SOCIETY

The Annual General Meeting was held on 10th September, 1963, with Mr. G. E. Brown in the Chair. The following officers were elected for the year 1963/64 : Chairman, Mr. G. E. Brown; Vice-Chairman, Mr. G. J. E. Yates; Hon. Secretary, Mr. J. Woodhams; Hon. Assistant Secretary, Mr. J. Elsley; Hon. Treasurer, Mr. J. E. S. Souster; Committee Members, Miss M. J. Dennis and Mr. P. H. Bridgeman.

SECRETARY'S REPORT FOR THE 1962-63 SESSION.

The season was a very successful one with very good attendances at meetings, the average being 42. The length of the meetings was restricted to $1\frac{1}{2}-1\frac{3}{4}$ hours and this, no doubt, accounts for the higher attendance.

The opening lecture by Mr. E. W. Macdonald on "The Art of Public Speaking" was very successful. Special mention should also be made of the masterly way in which Dr. K. Jones dealt with his subject—"Heredity and Horticulture". Both the Kew/ Wisley and the Kew/Cambridge debates were well attended. Again the Society was invited to send a team to the Annual Brains Trust at Barnes and the members selected were : Messrs. J. Woodhams, J. Elsley, J. B. Gaggini and Miss L. Tickner. The evening proved to be highly successful and the event was given a splendid write-up in the local newspaper. One evening trip was held during the summer, this being to the Lee Valley Experimental Horticultural Research Station.

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. J. B. Gaggini.
- 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. M. J. Theron.
- 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, was not awarded.

The Society gives thanks to Mr. G. E. Brown, Chairman; to Mr. G. J. E. Yates, Assistant Chairman; to Mr. J. E. S. Souster, Treasurer; and to Mr. R. H. S. Winter and Mr. D. W. Ralston, Committee Members. We are also indebted to Mr. Souster for the efficient way in which he organised the catering for the Kew/ Wisley debate. Credit must go to every member for the ready support given to make the season a successful one.

J. B. GAGGINI, Hon. Secretary.

SYLLABUS: OCTOBER, 1962-MARCH, 1963

1962

1962		
Oct. 1	The Art of Public Speaking	E. Macdonald
,, 8	Heredity and Horticulture	Dr. K. Jones
,, 15	In Pursuit of the Dümmer	K. M. Fellows
,, 22	A Little about Dwarf Conifers	J. B. Gaggini
,, 29	Dartington Hall Gardens	R. C. Ward
Nov. 5	Coconuts	J. O. H. Smith
,, 12	Lettuces and Melons Under Glass	D. J. Breach
" 19	Internal Debate—Miss J. Hyde-Trutch, Messrs. A. D. MacArthur, D. Mason and D. Breach	an an tha an
,, 26	A Modern Parks Propagation Department	M. J. Griffin
Dec. 3	Clematis Production	K. R. Woolliams
,, 10	Turf	J. A. Maddox
,, 17	Some Aspects of Landscaping	A. J. Rose
1963		
Jan. 7	The Case for Bedding	P. Brooks
,, 14	The Genus Magnolia	A. Schilling
,, 28	Light machinery and its horticultural appli-	
	cation	D. Higham
Feb. 11	The Ecology of British Mountain Flora	M. Tyas
,, 18	Algae, horticulturally speaking	D. Ralston
,, 25	Landscaping in Towns and Cities	M. Theron
Mar. 4	Vegetational changes in New Zealand	A. D. MacArthur
" 12	Kew-Wisley Debate (at Kew)-Messrs. M. Theron and R. C. Ward	an an an Araba an Araba. An an an Araba
" 18	Horticulture in Israel and its Water Require- ments	A. Armony
" 25	Kew/Cambridge Debate (at Cambridge)- Messrs. R. Marshall and D. Allen	
Apr. 1	Electrical Equipment used by the Horticul-	

Students' Day. This event was held on 11th May, 1963, when various aspects of the scientific and horticultural work of the Herbarium, Museums, Jodrell Laboratory and the Gardens were displayed. Over 1,000 attended, there being 300 from Universities, 250 from schools, 150 from Training Colleges and 130 from Scientific Societies. (These figures are only approximate).

The Horticultural Education Association visited Kew for its Spring Conference on 23rd and 24th April, 1963. On this occasion parties of members were taken round the various departments to see something of the work being done and the functions of each. The Kew Film was shown and, in addition, talks were given by Mr. J. P. M. Brenan on the Herbarium and Mr. R. A. Russel on Economic Botany. The first visit of the H.E.A. was in 1949, when they held their "Craftsmanship" Conference.

KEW BOTANY CLUB.

Interest in the club has fluctuated throughout the year and attendance at summer meetings has in the main been poor. However the winter series of lectures were well received with an average of 12 members attending.

The first paper was given by Mr. D. Reid entitled "Spore Dispersal in Fungi". The speaker gave a most informative talk, dealing amongst other things, with spore and gill variations and their relationship with spore dispersal. For the second lecture Mr. C. Jermy, from the British Museum, gave a talk on "British Ferns and their Ecology". This proved an interesting evening especially for those with little knowledge of this somewhat specialised group of plants. The final lecture to complete the winter series was given by Mr. F. N. Hepper upon "Plants of the Coast". The audience gained much from the talk which gave one a good idea of the ecology of the coastal areas.

Three of the summer trips were very successful: The Box Hill area, the local tour to study Grasses and the trip to Sittingbourne to study Orchids. Owing to lack of sufficient support, the Tow Path and Staines Road refuse area trips were cancelled. So too was the all-day Club outing to the Huntingdon Fen district. Many members prefer to collect on their own than go with organised parties.

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. Winter.

The Proudlock Jubilee Prize for the next best collection was awarded to C. B. Pead.

At the Annual General Meeting the following committee members were elected : Messrs. R. Deans, H. Fleigner, C. Duncan and F. A. Overland. Mr. D. Philcox remained as Chairman. In concluding I wish to express thanks to these members and all who have given their support.

J. WOODHAMS, Hon. Secretary.

The "Constables Boxes" at Cumberland and Lion Gates have been rebuilt to a modern design.

His Majesty The King of Sweden paid an unofficial visit to the Gardens on 12th November, and spent about three hours going round with the Director.

The new No. 4 Greenhouse was first opened to the public on 2nd November, 1963. It was built on the foundations of the old house and the ground plan conforms almost exactly with the former structure.

NOTES ON MAGNOLIA PROPAGATION AT KEW

Generally speaking the subject of Magnolia propagation is not a subject of controversy. Being popular garden plants for the amateur, they have been grown commercially for a good number of years, and one would therefore assume that the best methods of propagation have been discussed and put into use. We have at Kew an exceptionally fine representation of the genus and several of these are not to be seen in trade catalogues. It would be safe to assume therefore that little is known generally of the best propagation methods of some of these hybrids and rarer species. The purpose of these notes is to give the results and observations of methods used in the Arboretum Nursery over the last few years. It should be appreciated by the reader that the results are only a guide as only limited numbers were involved. Carried out on a large scale, in conditions especially suited to the one particular subject, better results should be possible.

The accepted methods of Magnolia propagation are as follows : —

(i) Seed, (ii) Layers, (iii) Cuttings and (iv) Grafts.

(i) Seed.

Seed raised plants are of course to be preferred as they are long-lived and vigorous, but owing to the difficulty of obtaining sufficient quantities of seed in good condition, this is not always possible. One must also bear in mind that Magnolia seed has a short viability and does not travel well unless carefully packed. Certain species do not bear seed very readily or frequently in the British Isles and importation of these is often essential. Some difficulty in securing a reliable source may be experienced but if the seed is readily obtainable in good condition, this method of propagation is to be preferred.

(i) Layers.

This method is extensively practised by commercial nurserymen, especially in Holland and is a reliable method of propagation. The main reason we do not practice it to any extent at Kew is because of the space required. To ensure a constant supply of rooted layers, duplication of stool plants is necessary according to the number required. We therefore limit the practice of this method to one or two plants for demonstration purposes.

(iii) Cuttings.

Certain species and hybrids give excellent results by this method and commercial establishments in the United States using continual mist have achieved some very high percentage figures by this type of propagation. At Kew we obtain good results with cuttings taken in early to mid-July under mist. The selected material is 3-4 inches long with relatively short internodes and a heel if at all possible. The growths are taken immediately growth has ceased with the apical bud "set".

The cuttings are treated with Seradex No. 2 Hormone Powder and are inserted in a medium of equal parts of Durite (granite chippings), peat and sand. During last summer we experimented with one batch of cuttings on the mist bench and with a similar selection under a polythene case erected over one of the mist spray nozzles. The temperature difference between the two conditions is negligible but the humidity is greatly increased with the polythene case or "sweat-box" as we term it. In fact the condition within the case must be very similar to the conditions brought about by continuous mist units and our results support this theory. Although, as already stated, a relatively small number of cuttings were involved, the improved rooting of those inside the case was very marked. The percentage of cuttings which rooted in the case was 50-100% higher than those in the ordinary mist bench. An exception to the cutting taken in July is Magnolia grandiflora which we take in September. Using the same comparative test as above, we obtained the maximum results from cuttings in the case.

The main difficulties of this method of propagation are those of "weaning-off" and overwintering after the cuttings have rooted. "Weaning-off" must be carried out very gradually over a period of 3-4 weeks or more. The cuttings rooted within the polythene case are potted and replaced for at least a week before being placed on the open mist bench. After a further period of 7 days the young plants are transferred to the "weaning-unit" and treated in the usual manner. It is decidedly preferable to induce the rooted cuttings to grow vegetatively before the fall as losses are less likely to occur. It is therefore advisable to take the cuttings sufficiently early in the season and certainly not later than the third week in July and to wean them off slowly after rooting. The overwatering of rooted cuttings during the winter months can also bring about considerable losses.

(iv) Grafting.

This method of propagating Magnolias is to be avoided if possible, but in certain instances when numbers of a particularly good form can be increased in no other way, the practice is justifiable.

Whenever possible the practice at Kew is to graft in January using 2-3-year-old stock plants established in 48's. These stock plants are brought inside 2 weeks prior to grafting and are placed in an open propagating case with little or no bottom heat. The selection of the correct type of scion-wood is all important and we have found that 2-3-year-old side shoots with short internodes give the best results.

The whip-graft is employed and is positioned no more than $\frac{1}{2}$ -inch above the hypocotyl of the stock. The union should be secured with plastic grafting strips in preference to raffia as these have the power to stretch as the graft grows away and there is

less chance of fungal infection. The tie once complete should be waxed over with any suitable material, e.g. candle-wax, grafting wax or diluted Arbrex (a bituminous compound). The grafted plants are stood in the open propagating case and shaded. For good results the house temperature should be kept at 50° F. maximum and regular damping down between the pots should be carried out. Union should be complete within six weeks by which time the shading should be gradually reduced and the plants stood out on the open bench. Subsequent treatment is the same as for any other grafted plant, namely that of hardening off and plunging in a shaded open frame for the summer months. Some shelter is given during the following winter from severe frosts and the young plants are lined out in the open nursery the following spring.

From the grafting we have carried out over the last three years it appears that scions of some species and hybrids are incompatible on certain stocks. To overcome this we have matched our stock/ scion relationships by bearing in mind the botanical characters of each and also their global distribution. As an example of this our practice is to graft scions from a species or form in the Rytidospermum Group on to a stock of a species from the same group—e.g. M. obovata (Pink Form) is grafted on M. obovata, M. officinalis or M. rostrata. If, however, no stock is available within the same group, we graft on to a stock of a species that has similar distribution. Although these factors indicate that the chances of incompatibility can be reduced they are not altogether constant. As an example, M. x thomsoniana, a hybrid between two American species has proved quite compatible on the stock of M. soulangeana, a hybrid of two Asiatic species. Conversely, to support the incompatibility theory, M. campbellii in the Yulania Group with an Asiatic distribution does not seem compatible on any species that is not of the same group or distribution.

Clearly there is much to be learnt concerning stock relationships and we intend to continue with further experiments, the results of which will be presented in this *Journal*

In order to give a clear picture of our results the species and hybrids propagated at Kew over the last three years with the method of propagation and the results are listed below.

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М.	acuminata	Seed	Good
,,	ashei	Grafted on to M. macrophylla	100
,,	campbellii (Kew Form)	Grafted on to M. campbellii seedlings	40
, ,	denudata	Cuttings-July-polythene case in mist house	60
,,,	fraseri	Grafted on to M. tripetala	63
"	grandiflora	Cuttings-Septpolythene case in mist house	106
,,	kobus	Cuttings-July	60
۰,	liliflora	Cuttings–July	70

			313
	Subject	Method of Propagation	Results
М.	mollicomata	Seed	% Fair Fair
"	rostrata		
"	salicifolia	Seed	Fair
,,	sieboldii	Seed	Good
,,	sinensis	Seed	Good
"	sprengeri elongata	Grafted on to M. soulangeana	60
,,	stellata	Cuttings-July-polythene case in mist house	60
"	tripetala	Seed	Good
**	virginiana	Cuttings-July-polythene case in mist house	70
"	wilsonii	Seed	Good
"	x "Charles Coates"	Cuttings-July-polythene case in mist house	8 0
"	x "Highdownensis"	Grafted on to M. sieboldii	100
"	x loebneri	Cuttings-July-polythene case in mist house	60
,,	x loebneri	Grafted on to M. soulangeana	100
,,	x raffillii	Grafted on to M. campbellii	100
"	x lennei	Cuttings-July-polythene case in mist house	75
,,	x thompsoniana	Grafted on to M. soulangeana	100
,,	x veitchii	Grafted on to M. soulangeana	35
"	x veitchii	Cuttings-July-polythene case in mist house	35
,,	x watsonii	Grafted on to M. soulangeana	75
,,	x soulangeana vars.	Cuttings-July-polythene case in mist house	85
"	x kewensis	Cuttings-July-polythene case in mist house	60

A. D. SCHILLING, Foreman, Arboretum Nursery.

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KEW, ITS WEATHER AND ITS PLANTS IN 1963.

"Sing a song of seasons, Something bright in all."

Robert Louis Stevenson.

In their official Weather Summary for 1963, the authorities at the Meteorological Office opened with the phrase—" A very severe winter and a disappointing summer." To some extent this summarises the feelings of the gardeners at Kew but there must be some reservations. For example, reference to the account of the effects of the severe winters of 1961-62 and 1962-63 in the *Journal* will disclose the fact that Rhododendrons flowered very well indeed and were unharmed by frosts or bad weather. This latter account also deals with the weather and with plant behaviour over these first few months.

In mid-April the two Award of Merit Prunus Hybrids-P. okame (incisa x campanulata) and P. accolade (sargenti x subhirtella) produced their delicate pink blossoms with perfect effect against the dark background of distant deciduous trees. One of Wilson's favourite Cherries quickly followed-P. yedoensis, but the weekend when it was at its best was wet and windy, causing much damage to the delicate blush-pink blossoms. Perhaps April was typical with such changeable weather—at Kew thunder was heard one day and snow or sleet fell on another, but did not lie. One morning there was also fog. May proved changeable but the rainfall was near average and this had a beneficial effect upon the tree and shrub collections as they were recovering from the effects of the severe winter. June proved to be the dullest and wettest since 1958, but the 1st to 3rd was the sunniest Whitsun weekend since 1949. Watering, which was in full swing early in the month lost its degree of urgency as heavy thunderstorms spread over the district. July was, however, dry, cool at first but warm and sunny at the end of the month. Aesculus parviflora was out in flower in early August and the plant by the Ruined Arch was perfect in its setting against the doubly-pinnate luxuriant foliage and feathery golden panicles of Koelreuteria apiculata. In the nearby Erica Garden one of the earliest varieties of *Calluna vulgaris* was out in flower — the form 'alba-plena'. This fine plant produces an abundance of dainty white flowers which are offset by the light green foliage. But August proved mainly dull and cool, and this weather extended into September. Weeds became a problem with the rainfall for these two months well above the average. October, on the other hand, was a dry month with more normal temperatures. Some of the earliest autumn colour of the season was provided by Fraxinus americana, the White Ash, a native of eastern N. America. but the peak of the display was in the third week in October. One of the most striking effects was provided on the northern edge of the vast expanse of lawn in front of Kew Palace. There the dense, rounded crown of Pinus muricata, the Bishop Pine, was outlined

perfectly by the rich light brown tints of the large specimen of *Acer opalus* which was originally planted 69 ft. away. A planting lesson from the old masters of the past!

So into November, which proved wet and windy, but one of the mildest on record. (The mildest November on record was 1938). Under these conditions a number of shrubs were catapulted into a premature flowering. Viburnum rhytidophyllum and V. rhytido-phylloides flowered half-heartedly. So did Spiraea thunbergii. Shrubs which were flowering nicely were Elaeagnus macrophylla, Osmanthus heterophylla, Crataegus monogyna praecox, Viburnum fragrans and V. foetens, Lonicera standishii, Arbutus andrachne, A. andrachnoides and Prunus subhirtella autumnalis. The early flowering Rhododendron hybrid—R. caucasicum x arboreum 'venustum' (R. nobleanum 'venustum') appeared with its rosy pink blossoms in early December, but this month was too cold for good development. Reference to the list of plants in bloom on the last day of the year will show how one or two were driven back to bud and dormancy by a very sharp spell which, for several days, held an icy grip on Kew down to a depth of 3-4 inches. In all, air frost was recorded on 14 days, but the rainfall was about one-third of average and there were 22 days without measurable rainfall. Light snow or sleet showers fell on 13th and 16th but fortunately we were spared a white Christmas.

One of the most interesting flowerings has been the premature opening of *Shepherdia argentea*. Normally this is in flower nearer February, but it appears that this plant just could not hold back once it had been brought forward by the exceptionally mild November.

RAINFALL AND TEMPERATURE READINGS FOR KEW IN THE YEAR 1963.

	Rainfall	Tempera	ture (in Fahre	enheit)
Month	in	Maximum	Minimum	Grass
1963	Inches	Av.	Av	Av.
January	 .08	33.51°	25.32°	21.70°
February	 .07	37.07°	28.92°	26.61°
March	 2.52	52.42°	38.61°	36.19°
April	 1.98	56.43°	42.26°	40.69°
May	 1.65	62.26°	44.32°	41.87 °
June	 1.93	70.90°	52.06°	50.33°
July	 1.36	74.50°	53.20°	49.80°
August	 2.36	67.22°	51.87°	48.59°
September	 2.66	64.60°	48.63°	45.23°
October	 1.61	59.97 °	45.19°	41.29°
November	 4.58	54.90°	42,23°	37.60°
December	 .71	41.00°	32.00°	30.20°
Total	 21.51			

AT THE R.H.S. SHOWS.

Autumn coloured foliage found in the Competitive Classes for Trees and Shrubs. 23rd October, 1963. (Unless otherwise indicated each species only appeared once.)

Acer japonicum Thunb.

platanoides L.

pseudo plantaus L.

of crimson.

> brilliant vellow with some green. rich yellow.

- this was not very impressive. The veins tended to stand out vellow with variable patches of dark purple, red, yellow and green.
- bright wine red but poor and shrivelled.

rich yellow to brown.

- dull red to purple with a dried appearance.
- yellow to deep red, veins deep rose. mostly dark purple but with bright patches of red.
- very striking, purple, bright red, orange-red, yellow and green leaves in that order from the base of the branches to the tips. brightly coloured red.

- bright shades of red to yellow with deep red and purple areas. shades of yellow and deep purple. buttercup yellow.
- pale buttercup yellow with green edges.

- deep purple, yellow and green. dark brown and green, poor. red to green and purple. The un-dersides of the leaves white. Striking.
- dark reddish-purple, to some extent glossy.

yellow to intense red.

yellow, red, plum-coloured and green.

intense red-brown but dull.

brick-red to green but dull.

red-brown with some green.

dark red to purple.

- brown-purple with patches of green and orange. Striking.
- variable golden, red to deep crimson.

red to purple with some yellow.

yellow to vivid deep red.

yellow and red.

orange-red.

green, red and dark purple.

plum red.

very deep purple-red effect.

Carya alba Emerson or (Miller) Koch?

Cotinus coggyria Scop. Cotoneaster bullatus Bois.

Disanthus cercidifolius Maxim.

perulatus C. K. Schneid. Two Fothergilla monticolor Ashe.

Fraxinus ornus L. Lindera benzoin Blume

Magnolia obovata Thunb. Malus tschonoskii C. K. Schneider

Two Nyssa sylvatica Marsh. Oxydendrum arboreum DC.

Photinia beauverdiana C. K. Schneider villosa DC. Ouercus coccinea Muenchh. Stuartia koreana Nakai sinensis Rehd. and Wils.

Sorbus discolor (Maxim.) Maxim.

Two Rhododendron luteum Sweet Rhus trichocarpa Mig. " typhina Ĺ. var. laciniata Low Vaccinium corymbosum L. Two Vitis coignetiae Pul. and Planch. ,, vinifera L. ' BRANDT' Viburnum sargentii Koehne

sieboldianum Miq.

Cornus kousa Buerg.

refinerve Sieb. and Zucc.

- Enkianthus palibinii Croib.

triloba (Sieb. and Zucc.) Bl.

Liquidamber styraciflua L.

trilobata C. K. Schneider

THE KEW SUNDIAL.

The bronze dial plate of the Tompion Sundial which stands on the lawn in front of Kew Palace has been moved to the British Museum. It has been replaced by an accurate reproduction mounted on the original marble pedestal. The replica, made by Mr. J. Charlton, commemorates the visit of Her Majesty, Queen Elizabeth II to Kew during the Bicentenary Celebrations in 1959.

Thomas Tompion (1639?-1713) was the greatest English watch and clock maker of the seventeenth century. To this day collectors recognise the great quality of his clocks. Working first as a blacksmith he was apprenticed to a London clockmaker in 1664 and was admitted to the Clockmakers' Company in 1671. In 1676 he became clockmaker for the newly established Royal Observatory. One of his greatest contributions was the innovation of the cylinder escapement which first made possible the construction of flat watches. Also, in collaboration with Robert Hooke he produced one of the first watches with a balance spring. Many of his clocks still exist, a number being constructed to run for one year without being re-wound. There is also a barometer which Tompion made for William III at Hampton Court, and other examples at Windsor Castle and Buckingham Palace.

The master craftsman has several sundials, other than the one at Kew, to his credit. One of the same design is in the gardens of Hampton Court Palace, while he also produced pocket instruments. The marble pedestal of the Kew sundial, shaped in the form of an octagonal baluster, is highly decorated with ornate carvings and with William III's cypher—W.R. entwined and reversed. It was placed in its present position in 1832 by order of William IV, having probably been brought from Kensington Palace. As indicated on the marble slab in the paving around the base of the baluster, it commemorates the spot where in 1725 the Astronomer Royal, the Rev. James Bradley, made the first observation which led to his two great discoveries of the aberration of light and the mutation of the earth's axis.

The inscription on the bronze dial plate reads as follows : "Set the Watch so much faster or slower than the time by the Sun, according to the Table for the Day of the Month, when you set it; and if the watch go true, the difference of it from the Sun and Day afterward will be the same with the table." The gnomon also highly decorated. It is thought that the marble pedestal was designed in Sir Christopher Wren's drawing office.

Thus generations of gardeners at Kew, although perhaps they have been unaware of it, have paid tribute to Tompion every time they have consulted their flat watches complete with balance spring and remarked "time I wasn't here". The part they have played has been in keeping the Gardens neat and tidy, thus providing a perfect setting for a very apt monument to the "father of English watchmaking". 318

PLANTS IN BLOOM IN THE OPEN AT KEW ON DECEMBER 31st, 1963. Berberidaceae Hamamelidaceae Mahonia 'Charity' Mahonia japonica DC Hamamelis japonica Sieb. & Zucc. Hamamelis japonica Sieb. & Zucc. var. Mahonia japonica DC. var. hiemalis arborea (Masters) Gumbleton. Hamamelis japonica Sieb. & Zucc. Hort. Brevipaniculata ' Mahonia lomariifolia Takeda. Hamamelis japonica Sieb. & Zucc. Calvcanthaceae Flavo-purpurascens ' Chimonanthus praecox (L.) Link Hamamelis japonica Sieb. & Zucc. Caprifoliaceae Jelena Lonicera x purpusii Rehd. Hamamelis mollis Oliver Lonicera standishii Jacques Hamamelis mollis Oliver var. pallida Viburnum fragrans Bunge Chittenden Viburnum fragrans Bunge 'Farrer's Hamamelis vernalis Sarg. Pink ' Hamamelis virginiana L. Viburnum foetens Decne. Oleaceae Viburnum tinus L. Fraxinus angustifolia Vahl. Elaeagnaceae Jasminum nudiflorum Lindl. Elaeagnus macrophylla Thunb. Ranunculaceae Shepherdia argentea (Pursh.) Nutt. Helleborus abschasicus A. Braun Ericaceae Helleborus argutifolius Viv. Arbutus andrachne L. Helleborus atrorubens Waldst. & Kit. Arbutus x andrachnoides Link. Helleborus graveolens Host. Arbutus unedo L. var. rubra Ait. Erica carnea L. 'Praecox Rubra' Erica carnea L. 'Winter Beauty' Helleborus niger L. subsp. macranthus (Freyn) Schiffner Helleborus orientalis Lam. Erica x darlevensis Bean Helleborus x sternii Turrill Erica x darleyensis 'George Rendall' Erica x darleyensis 'Silberschmeize' Rosaceae Erica lusitanica Rudolf Chaenomeles speciosa (Sweet) Nakai Erica mediterranea L. 'W. T. Rackliff' Mallardii '

The daily	шалп	num	anu .	шши	num	temp	eratu	les I		ecem	UÇI,	1905,	are	as 10	now	5
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Max.	4 7 °	480	45 º	45°	42º	40º	42º	39 0	390	40°	42°	440	35°	36º	38º	410
Min.	440	430	430	380	39 0	34 0	30º	27º	310	340	360	350	30 °	270	30 °	310
Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Max.	39 0	390	350	340	36°	380	38º	32º	45 °	46 0	42º	47 °	50°	51°	47 º	
Min.	32º	270	26 º	2 0º	26 °	2 4º	22º	25º	310	310	330	39 0	310	41 °	330	

Slide Collection at Jodrell Laboratory. A recent estimate shows that the reference collection comprises some 35,000 microscope slides, mostly filed under families. The collection includes slides filed in a number of special categories such as the roots of trees and shrubs, parts of plants used in medicine and commercial fibres, and there are a great many timbers. The Collection was started in 1930.

The new 3-Year Course for Students at Kew started on 7th October, 1963. Old Kewites will be interested to learn that Students are released on one day each week to attend lectures. Lectures are given principally by the staff at Kew, but some outside instructors are employed. A Supervisor of Studies has been appointed to take charge of the course : Mr. L. Pemberton (1954).

THE EFFECTS OF THE SEVERE WINTERS OF 1961-62 AND 1962-63 ON THE HARDINESS OF TREES AND SHRUBS AT KEW.

The average gardener who cultivates trees and shrubs in the British Isles could with some justification be classed as a very ambitious and, if not a reckless, certainly an adventurous person with little regard for the feelings of plants. His aims soar to the dizzy heights of the Himalayan mountains, where breath-taking wonder plants grow and bloom in all their splendour, and range across whole oceans and continents to the starry myrtaceous and compositous sun-loving jewels which sparkle in the Australasian flora.

In his garden he attempts to grow such a wide range of plants selected from these and other varied floras and plant communities, far removed in character and requirements from those native to his own country. Naturally his preference frequently leads to the selection of many difficult and semi-hardy plants whose very existence in a garden is contrary to all logical reasoning and can only be justified when it is accepted that it springs as a reaction to some form of challenge, coupled with a sad lack of ability to face facts which would be more obvious if it was not blinded by ambition.

The selection, gems of his choice, are planted with a full knowledge of their requirements. He is thus able to extend preferential treatment to the improvement of soil conditions and to the creation of a favourable microclimate, but alas, he has little or no control over the great and often rapid fluctuations in temperatures and conditions to which the plants, almost without exception, are annually subjected.

Considering Kew, the average January temperature during the period 1871-1910 was approximately 38°F., the minimum falling during the latter half of the month. Should this temperature be an absolute minimum for Kew below which it never falls, the range of plants which could be grown would indeed be completely different in character to those found in the Gardens. Such palms as *Phoenix canariensis* would thrive happily while many pelargonium species from the Cape would flourish as weeds in neglected corners. The foliage effects and the general aspect of the whole garden would be almost sub-tropical, far removed from the deciduous character of most of the existing plantings which, by reason of their grouping and vastness, have the essential attributes of a Brownian Landscape, as indeed was intended by that great eighteenth century figure who laid the foundation of some of the main features which exist at Kew today.

The selection of plants which can safely be grown in any one area under ideal conditions may be likened to the restricted field which comes into being as a view is taken through a telescope.

If such an instrument were used on a scale which showed the plants of the vegetable kingdom against their ideal temperature range only a very limited number would come into view at any one time. At the lower temperatures the plants in view would be mostly deciduous in character, with a sprinkling of the hardier conifers, but as the scale was traversed a number of evergreen subjects would appear. Soon, if the movement up the scale continued, evergreens would predominate with the deciduous subjects and many of the hardier plants being gradually cut out. Plant species evolved under a set of conditions will in turn need a similar environment to survive, although some plants can adapt themselves very easily. Long and cold winters have played the predominant part in the evolution of hardy deciduous plants and these are successful under these conditions owing to their powers, even in the seed stage, of "dormancy", a mysterious condition which plant physiologists cover by the use of this unfortunate and misleading term.

In a botanic garden such as Kew the natural tendency, which is indisputably quite correct, is to grow as many species as possible in the outside collections. The plants which will grow and thrive in the open garden are understandably larger and more natural in growth than under glass. With a continuation of this policy, resulting basically from the attempt to build up the outside collections, there is a very large and variable number of species. As a result of a run of mild winters our successes with some of the renowned half-hardy plants were encouraging. Even without these marginal species the range of the trees and shrubs recognised as hardy at Kew was indeed surprising. Specimens of Sequoiadendron giganteum, whose native home is in the sheltered groves of California, were growing side by side with *Picea glauca*, the White Spruce, which is found at a higher latitude than any other evergreen tree, almost within the Arctic Circle. Sizable plants of the sun-loving Cistus species from Mediterranean regions could be found in borders by that lover of a cool and moist climate Mahonia lomariifolia, whilst in the background mature and worthy specimens of Eucalyptus gunnii grew in successful competition with our hardier native trees, to give relief to an otherwise flat landscape and to add generally to the beautiful effect.

Thus the stage was set for the last two winters when bitterly cold northern winds brought arctic conditions into our temperate plantings. However a detailed study of the weather conditions and the effect which they had upon the plants generally reveals a considerable difference between them. Both the winters 1961-62 and 1962-63 opened in the first week of January with snow and frost but there any similarity ended. In 1962 the cold weather soon gave way to warmer conditions and it was not until mid-February, when the first hint of spring had arrived, that the cold winds returned as a result of the establishment of a high pressure system over Greenland. After a long cold period lasting

several weeks a warmer spell followed, with a recorded temperature of 65° F, in the Gardens on Easter Sunday and Monday, 22nd and 23rd April. Again, however, spring conditions receded as cold north-easterly winds became established as part of a persistent high-pressure system which settled over Icelandic Regions. There was indeed a tendency for similar conditions to prevail throughout the year and this tendency for persistent cold spells brought an early winter. On the 16th September the south of England was given a foretaste of the severe winter which lav ahead, for snow fell for a few minutes at Oxted in Surrey, not many miles from Kew. October, 1962, went out with a white frost, soon to be followed by easterly winds which brought cold air from Russian and Baltic Regions. Although a brief spell of milder weather followed through to mid-December, as a series of south-westerly gales brought wind and rain, the biting winds returned. On Christmas Eve, the coldest of the century, the whole of the country could well have been part of Siberia for it was held in the icv grip of cold winds and low temperatures which came from that country. The Christmas Day which followed was the coldest for eighteen years at Kew, but worse conditions spread south and east across the country with the blizzard of the 29th December. Kew was under a thick covering of snow on New Year's Day for the second consecutive year.

Thus opened the year 1963, the second half of the winter of 1962-63. It was to prove the coldest one for two hundred years. The familiar roads and paths within the Gardens were reminiscent of alpine passes. Lucky indeed were those plants which were covered and protected by the heavy fall of snow which was left in perfect refrigerated storage, although after a few days it became dirty and smutty as it was coated with the oil, grime and carbonaceous deposits from the atmosphere. By mid-January the northeasterly gales were strong and well established, with true Siberian velocity and bitterness. Frequent snow showers developed, while to mark the calendar change to February, there were further heavy falls which did at least cover the filth which had settled earlier. During January there had been sixteen days of unbroken frost at Kew and the maximum temperature for the month was 37° F., the lowest since 1841. At Kew, also, the end of January temperature at a depth of one foot was 29.7° F., thus setting up a new record and adding further to the discomforts of the trees in a soil which was not to thaw out completely until early March. In all the cold spell lasted fifty-two days with two partial thaws. The lowest temperature was on the 23rd January, when 11° F. were recorded as a minimum.

So through February to March the majority of the shrubs and, of course, most of the trees, unprotected by the snow, rocked and swayed in the cruel winds which continually blew on and through them. The thaw was not fully established and under way until the second week in March. As the very cold wintry spell was replaced by milder weather, with winds from the Atlantic, most of the evergreens presented a very unhappy appearance with bleached and shrivelled foliage which at first appeared beyond all hope. Yet the weather which followed was on the whole kind. Kew had its wettest March for eleven years, with ground frost on only nine nights. Within a few days the scene changed and most of the Rhododendrons recovered completely and flowered in profusion. By the end of March such Chinese species as Rhododendron calophytum, R. fargesii, R. praeteritum, R. sutchuenense and R. praevernum were in full display, and thus the long succession through the flowering periods of the various series continued, until by the end of May the hybrids in the Rhododendron Dell flowered perfectly. The entire period during which the Rhododendrons flowered was free of harmful frosts and the season, as far as this genus was concerned, was a memorable one. Some losses of the more tender species were to be expected. The rare R. polyandrum, in the Maddenii Series, grows at 8,500 ft. in Bhutan, its natural habitat. The entire stock of this species was killed outright during the winter of 1961-62 and again the lesson was driven home that most of the species within this series require the shelter of a greenhouse. A number of the other genera in the huge family Ericaceae showed signs of great distress. Of these, perhaps a number of the species in the genus with the name which springs directly from the ancient Latin-Arbutus, gave the biggest surprises. With Arbutus unedo the first severe winter's damage was only slight compared with that which followed the second one when the plants were almost killed. Some of this damage and severe dieback may have accumulated over the two winters, for this species continues growth later into the early winter and is normally flowering and fruiting in December. Hailing from the hills of Cyrenaica and other Mediterranean regions, in addition to selected areas on the Atlantic seaboard, Arbutus unedo proved much less hardy than a closely related species. Arbutus andrachne, which is found in S.E. Europe where the climate is usually hot and dry. Perhaps some remote ancestor of the latter species thrived in a more rigorous continental climate? At any rate little damage was noted, while the hybrid of these two species, Arbutus x andrachnoides, also escaped and flowered most freely during the early winter of 1963. The rare Californian species, A. menziesii, suffered little, a surprising result in view of the sunny favoured habitat which this species enjoys.

Continuing with Ericaceous plants, the Ericas themselves showed variable reactions. After only two or three days of the heavy snowfall and severe frost experienced in 1963, the taller species from S. Europe were in a very pitiful plight. *E. lusitanica* only slightly damaged in the earlier winter, was killed outright, while the species which is very similar in effect, *E. arborea alpina*, was so severely broken and twisted by the weight of snow, that many of the larger plants had to be removed entirely. Some splitting of the stems through frost action was also apparent. *Erica mediterranea* was severely mauled and broken, but the plants have rejuvenated very readily, after being cut back to ground level in the spring. E. terminalis, native of S. Spain, Italy, Corsica and Sardinia, reported by the late Mr. W. J. Bean of Kew as having passed through the winter of 1894-5 without serious injury, was again unarmed. On the other hand, the Cornish Heath, E. vagans, suffered considerable damage in the last winter-a further example of the inability of an Ericaceous species from the Atlantic costline to withstand rigorous conditions. The tender European species of Ericas may be more closely related to those from the Cape than is generally imagined. The remainder of the Ericas proved to be very hardy; so also did Calluna vulgaris and the numerous varieties of which it boasts, although it was noticed that the form "elegantissima" was in some cases killed completely, especially after the last winter. Pieris formosa var. forrestii, an Ericaceous beauty which is prized by most gardeners, was killed down completely to ground level but is now recovering from the base of the plants.

The losses among Cistus species at Kew are heavy in all but the mildest of winters for our conditions, even in the summer, are far removed from those which prevail on the sunny, rocky hills of North Africa or in the great Cistaceous scrublands which exist along the northern shores of the Mediterranean. Thus it has long been the practice at Kew to winter young plants of the entire collection under glass as a precaution. In a report of the last winter's damage it was noted that C. cyprius and C. laurifolius escaped with moderate damage, the remainder being killed. This is strange for older plants of C. laurifolius were killed during the previous winter which meteorologists recognise as being less severe. The reason for this difference may be directly connected to the protective layer of snow which was a feature of the conditions of last winter. The young Ceanothus plants in the nursery proved a perfect example of this protection, for after the thaw a distinct horizontal line of demarcation on the position of the snowline was very apparent. Below this line the plants were alive; in the parts which were exposed above this they were dead. It was noticeable that the losses were heaviest among the deciduous varieties. especially C. "Lucie Simon" and C. "Gloire de Versailles".

The Escallonia species suffered severe damage from last winter, but without exception they broke into growth from the older wood in the spring. This was also true of the varieties, but strangely *E. rubra* was severely cut back in the earlier winter; this species was recognised as being the hardiest of the evergreen species and was mentioned as such by Bean. Escallonias are natives of South America and likewise Colletias, a genus of strange spiny plants in an order which is full of botanical oddities including the previously mentioned Ceanothus. *Colletia cruciata* was killed during the first severe winter, but *C. armata* survived almost undamaged, to be severely mauled during last winter. This species has a xerophytic appearance and this would explain the lack of damage during the cold dry winds of the earlier winter.

Quercus ilex, the Holm Oak, and Olea europaea, the Olive, have a very similar appearance in their natural habitats. Both are sizable trees, and with a dense head afford very welcome shade to the travellers in the sunny lands of the Middle and Near East. Quercus ilex is a native of the Mediterranean regions and has been grown in England since the sixteenth century. It is generally recognised as being hardy in the south and south-west, but the foliage of many trees was bleached during the past winter. It can be assumed that this was mainly due to a physiological drought, caused by lack of water in the frozen ground, for the trees so affected grew away quite happily in the spring. The mature plant of Olea europaea also survived although the two winters have taken most of the twiggy growth away from the plant, which has broken bravely from the stunted trunk which remains. However the effort was considerable and great praise is due to the planters who selected the position, screened from the east by hollies. Even this sheltered spot provided conditions far removed from those which apply on the edges of the burning deserts of Asia Minor and the arid hills of Syria, its native homeland. Kew may be the farthest north that this species has ever been grown in the open, not even with wall protection-a credit for Oleaceous plants generally, for a large proportion of this great but lesser known family grow comfortably in the humid tropics of the East Indies.

As one would expect, Rosaceous plants generally withstood the two winters very well, with the exception of the Pyracanthas. Among these the Nepalese and Chinese species suffered the most, particularly the forms and near allies of *P. crenulata*.

Lovers of Camellias who visit Kew regularly to see these flowers, mostly varieties of *C. japonica*, were shocked at their condition after the last winter. Most of the flower buds were killed completely while *C. cuspidata*, a small-flowered species from W. China and described by Bean as the hardiest of Camellias, suffered very badly indeed, losing all the foliage completely. It did however break freely in the mild and wet spring which followed.

Conifers generally came through the cold spells very well. Sequoia sempervirens and Sequoidendron giganteum were scorched but this often occurs in more normal winters, especially with the former species. Cupressus lusitanica flagillifera was killed outright—this was a great pity for it was a very shapely and attractive young tree. Chamaecyparis formosensis suffered very badly.

It is perhaps fitting to conclude this with an account of the behaviour of the hardiest of the Eucalypts, *E. gunnii*, for no other Australian and Tasmanian plant has captured the imagination of the public to such an extent. After the first winter the damage was only slight but one mature tree was almost killed by the last severe season. Yet it was only in November, 1961, that this very tree was in full flower! Was this behaviour a last minute effort on the part of the plant to perpetuate the species—if so, plantings of *Eucalyptus gunnii* should be commonplace in the Air Ministry gardens for long-range forecasting.

HALF-WAY ROUND THE WORLD AND BACK IN 109 DAYS.

The start of my long journey was on 3rd April, 1963, when I left London Airport for Kenya. During this journey I was to visit Zanzibar, India, Kashmir, Hong Kong, Japan, the Philippines, North Borneo, Singapore and Ceylon.

I found Nairobi a riot of colour despite the fact it was the dry season. Mr. B. L. Perkins (1950) and Mr. D. J. Pringle (1956) of the City Parks Department took me round and made me feel very much at home. In Zanzibar my very good friends, Mr. and Mrs. "Eddie" Barwani,* kindly took me round the town and neighbouring countryside. In the Coral Wanda area we saw Encephalartos hilderbrandtii covered by Gloriosa simplex which was in full flower. My next hop was to the Punjab in India, where I found the scent of *Plumeria tricolor* (Frangipani) and the brilliant colours of Bougainvillea varieties were reminiscent of Kenya and Zanzibar. A visit was paid to the gardens of the palace of His Highness, The Maharajah of Patiala. I found His Highness was an extremely nice person. Thus on to Kashmir where there were many familiar plants such as Berberis, Junipers, Hypericum and Buddleias. Here also was a species of Iris which formed a vast panorama of violet and white near Srinagar. Then to Hong Kong and Japan, but unfortunately I was unable to enjoy these owing to an attack of cholera which resulted in a spell in hospital. However, I lived to tell the tale! In Japan the Paulownias by the railroad were in full flower, but many of the gardens seemed to be more symbolic than ornamental. As a contrast the Filipinos displayed a complete lack of public gardening sense, but they proved very friendly and the native plants were most interesting.

North Borneo, the highlight of my tour, was one glorious plant collecting spree. Throughout my five-week stay I was the guest of Mr. (1962) and Mrs. Giles of Sapong Estate and we spent many happy hours talking of Kew or plant collecting. We attended blowpipe demonstrations and various celebration meals, caught pythons in the back garden and, of course, collected orchids and indeed any plants we could lay our hands on ! Mr. Comber, manager of the rubber estate was a mine of information. The climax of my visit was the ascent of Mt. Kinabalu to a height of 8,400 ft. in the company of Mr. Giles and two bearers. The purpose was to collect Nepenthes and epiphytic Rhododendrons. In all we collected 491 plants and 81 packets of seed. Our only complaint was the cold, for even Borneo can be cold at such a high altitude.

At the end of my stay in Borneo I sadly continued my journey to Singapore, where I visited the famous Botanic Gardens, Mr. (1956) and Mrs. Alphonso with Mr. and Mrs. Lamb were most kind and helpful, showing me around the gardens and city. In the botanic gardens there were many hundreds of orchid seedlings in flasks with the larger plants potted solely in a "compost" of

* Ref. Wedding Bells.

bricks and charcoal lumps. So to Ceylon and a visit to the Royal Botanic Gardens at Peradeniya. Mr. Jayaweera, the curator, took me "musaenda" hunting while Mrs. Jayaweera filled me with the delicious dishes of Ceylon.

Then the return home—first to Amsterdam via Karachi, Cairo, Rome and Frankfurt. When I arrived back in London Airport it was 21st July.

I would like to express my thanks to the Kewites and friends who helped to make my trip such a success. The true meaning of the Kew Guild was exemplified in the way in which the Kewites who I met rallied round to offer me their help and advice.

> K. R. WOOLLIAMS (left Kew after studentship in April, 1963).

The late Richard Arnold Dümmer. On the 15th October, 1962, Student Gardener K. M. Fellows gave a paper to the Mutual Improvement Society entitled, 'In Pursuit of the Dümmer'. The Dümmer is, of course, the prize awarded to the student who submits the best collection of British plants for the year. Researches into the history of this prize makes very interesting reading. Reference to page 248 in the 1924 *Journal* will disclose the first reference to this prize—in a report of the break-up of the Central African (Uganda) Branch of the Kew Guild. The report included details of the proposed founding of the Dümmer Memorial Prize, to be given annually from the interests of the Branch Funds which were to be invested for this purpose. The sum available was £61. This proposal was formally accepted by the Guild at the Annual General Meeting, 1926 (page 371, 1926 *Journal*).

The obituary notice for this great Kewite, together with a photograph will be found on page 175 and opposite this, in the 1923 Journal. From our records, Dümmer first applied to Kew for entry as a student in June, 1908. His letter from Cape Town, written to William Watson, mentions that he was advised to apply to the Curator by Mr. Ridley (George H. Ridley (1892), Superintendent of the Municipal Botanical Gardens, Cape Town).* Included among those who supported this application was Mr. T. W. Mathews, a florist and seedsman in the Cape. He recalled that Dümmer was the first "Colonial" apprentice and that the Premier, the Hon. John X. Merriman, referred to him in a speech at the opening of the Annual Show. There the Premier stated that he had "experienced great pleasure in finding a Cape-born boy in the Botanical Gardens, who was a highly trained gardener, and who was going to Kew to perfect his education". Another supporting letter was by Professor Pearson of South African College, Cape Town. He indicated that Dümmer was a grand nephew of Drége, the South African Collector. Acting upon Kew's advice. Dümmer came over to England and worked at Messrs. Sanders of St. Albans for 15 months before entering Kew in May, 1910.

* Obituary notice and photograph opposite p. 36 and p. 43, K.G.J., 1921.

HISTORY IN THE MAKING.

The Reginald Cory Memorial Cup has been awarded by the Council of the Royal Horticultural Society to Kew for *Magnolia x Charles Raffill*. It was shown at the R.H.S. Hall on 18th April, 1963, by the Crown Commissioners Estate, Windsor Great Park, when it received an Award of Merit. The cup is awarded to the raiser of a hardy hybrid that is the result of an intentional cross.

The cross was made by the late Mr. C. Raffill, who was Assistant Curator of the Temperate House Department at the time. It is *Magnolia campbellii* subsp. *campbellii x campbellii* subsp. *mollicomata* and was made in 1946.

Our own plants at Kew derived from this cross have not grown as rapidly as the Windsor plant and to date only one of the plants has reached sufficient size to flower. The colour and form of the large pale pink blossoms seems very similar to that of the A.M. plant and it will be interesting to see how the remaining plants will compare.

A fountain has been erected in the Palm House Pond in front of Museum 1. It consists of a bronze figure of Hercules strangling the Serpent, mounted on a 3 ft. high grey granite plinth. This is surrounded by a series of jets, four of which throw a column vertically up and over the figures, while the remaining sixteen send out jets with a low arching trajectory. These are worked by an electric pump. The statue, presented by H.M. The Queen, originally stood on the East Terrace at Windsor Castle and was sculptured by Crozatier, the French artist, for George IV in about 1826. It weighs two tons and is 8 ft 6 ins. high.

The Rt. Hon. Geoffrey Rippon, M.P., Minister of Public Buildings and Works, inaugurated the fountain on the afternoon of Monday, 13th May, 1963.

As a footnote, a pier was built out over the ice during the winter in order to convey and erect the whole in its present position.

The many generations of Kewites who have played cricket on The Green at Kew will be interested to learn that a very fine pavilion has been built with funds raised by the local Kew Cricket Club. It stands on The Green in the corner by Kew Bridge.

The old disused reservoirs have been cleared from the Arboretum Yard. The quantity of hardcore and broken concrete which was removed in the process was 2,400 cu. yards. Thus the final traces of the former irrigation system have disappeared—at one time water was pumped from the lake to fill these as a supply for the Gardens.

During the drought of 1921 the reduced flow of water down the river resulted in the tidal salt reaching the point of intake to the lake. Owing to the damage which resulted from this, the present system of taking water direct from Richmond Park came into being, and the reservoirs were no longer needed. An account of this damage is in the 1922 *Journal*, page 80. A new Department of Quantitative Taxonomy has been established at New York Botanical Garden under the Curatorship of Mr. D. J. Rogers. The first work in progress is the "development of a taxonomic computor programme that will aid in the correlative parts of the taxonomic process" (*Brittonia*, 26 : p. lxxii, July, 1963).

In a letter sent at the end of May, 1963, Mr. Matt Nicholls (1897) states : "I was interested in the removal of the Iron Room. I remember the lectures we received, especially from that distinguished old gentleman, Mr. Baker. He lectured upon such orders as Ranunculaceae. At the end of his talk one can see him picking up his "billy cock" hat with a good night to all. I remember J. Gribble (1895) and those he mentioned (*Kew Guild Journal*, 1962, Vol. vii, No. LXVII, page 193).

Being a native of Cornwall, at my time at Kew the following Cornishmen were employed there : Messrs. J. Gribble, W. Walter, Berryman, H. Williams, W. N. Winn (the Clerk at the Curator's Office). My regret is that I am unable to pay a visit to Kew. Owing to a troublesome knee I am unable to get about. Otherwise I have no complaint for 84. My wish, every success to the Guild ". Our wish—Many more happy years and may we hear from you again Mr. Nicholls—and Mr. Gribble, and, of course, any other old Kewites.

Under the will of the late Mrs. M. E. Hyde, the sum of £100 was bequeathed to Kew to be divided equally between the Foremen Gardeners, Gardeners Grades I and II, Gatemen, General Labourers, Improver-Gardeners, Women Gardeners and Student Gardeners who were in post on the day of her death, 10th May, 1963. A sum of 12s. $6\frac{1}{2}d$, was paid to each beneficiary.

A bronze medallion commemorating the Bicentenary of the publication of Adanson's *Familles des Plantes* (1763), with relief portrait of Adanson one one side and the Boabab tree on the reverse, was presented to Kew by the Muséum National d'Histoire Naturelle, Paris, through the Hunt Botanical Library, which organised the Adanson Symposium in Pittsburgh, U.S.A., in August. The medallion is on display in the Herbarium display case. (Michel Adanson—1727-1806).

Brentford Gas Works, Middlesex, closed down in September, 1963. The reason given by the North Thames Gas Board was that the plant was no longer economical. Thus the smoke and smut belching monstrosity which has caused the concern of gardeners at Kew for 142 years is no longer. For the present the large gasometer is used for storage but eventually it is intended to clear the whole site to make way for the replanning of Brentford generally. The Outdoor Chrysanthemums in the allotments by the Herbarium seemed noticeably cleaner during this Autumn.

LIVE PLANTS IN THE MUSEUM: 1963

During the winter of 1963 an exhibit was set up which was intended to cheer people a little and to remind them that spring and summer would come—sometime. The exhibit included winter flowering shrubs and trees such as Willows, Larches, Hazels, also Viburnums, Witchhazels, Winter Jasmine, Wintersweet, etc. With these were photographs of the Gardens in summer. The whole made a pleasant contrast to the desolation outside.

From April to October the Plant Table was used to show British wild plants. As in previous years material was sent in by contributors in various parts of the country and by members of the staff and students. More species were displayed than before, in spite of the weather. Great help was again given by the European department of the Herbarium in identifying material and, indeed, the Museum staff are very grateful for the help given by everybody both in providing material and in its identification. It is hoped that people will continue to be as kind in the coming season.

The "Moss Box" or Terrarium was in practically continuous use throughout the year, and here too great help was given by staff, students and outside contributors in providing and naming material.

Between October and Christmas the Table was used for an exhibit of the seed dispersal mechanisms of various British and alien trees, with fruit-bearing branches up the back and sides of the case and fruits and seeds at the base.

For the second year running there was an exhibit of some of the plants used in various parts of the world at Christmas, either for decorating or as Christmas Trees. Like all the live plant exhibits in the Museum, it proved popular with the general public.

ROSEMARY ANGEL.

50 YEARS AGO.

(from the Kew Guild Journal)

11/2 11/2

Director : Lt.-Col. Sir David Prain, I.M.S., C.M.G., C.I.E., F.R.S., V.M.H., M.B., etc.

Assistant Director : Arthur W. Hill, M.A., F.L.S.

(Later Sir Arthur).

Keeper of Herbarium and Library : Otto Stapf, Ph.D., F.R.S., F.L.S. Curator of the Gardens : William Watson, A.L.S.

Assistant Curator : William Jackson Bean.

WORKS AND DAYS—"I don't know the Editor of this journal, but I hope some day to shake him by the hand, for he is a friend, and I'll tell you why. The transmigration of souls is an old and pet study of mine, and the Editor says distinctly that I left Kew in 1869, which is exactly two whole years before I assumed this present body."

In Memoriam

Whereof the man, that with me trod This planet, was a noble type Appearing ere the times were ripe. That friend of mine who lives in God.

Alfred, Lord Tennyson.

E. G. DUNK.

Kewites of many generations will feel a great personal loss when they learn of the passing of "Ernie Dunk"—a keen Kewite and one who has done great service for Kew and for the Guild.

Entering Kew in 1914, Dunk became a Student Gardener in 1921, after serving with the Royal West Surrey Regiment during the First World War. In 1923 he became Gardens Clerk under Mr. Bean, the Curator, and in this capacity he proved a great friend to worker and student alike, helping them with tax and pay queries and with other difficulties which might arise. After the end of the Second World War, came the homecoming of the Servicemen and the commencement of the Trainee Course. Those of us who were on the first course and doubtless others who followed afterwards, quickly realised that "Ernie Dunk" would prove one of our many friends at Kew. It should be mentioned that at the time of his passing many of the older members of the staff expressed sincere and deep regret.

Mr. Dunk was elected as Secretary and Editor of the Guild at the Annual General Meeting in May, 1922, and before he retired he completed 16 years of faithful service and had produced as many *Journals*. A feature of the *Journals* which he produced is the great amount of detail which they contain.

It is interesting to note that in his first number (Vol. IV, No. XXXI) Dunk published a review by Mr. A. Osborne of the *Handbook of Conifers*, by Dallimore & Jackson (published 1923). In the next the original Badge of the Guild was included in the colours of the Guild—green and gold. It was designed by Mr G. Atkinson, our friend and keen Kewite, who was at that time the Botanical Artist. One feature of the 1926 issue is an obituary notice for William Watson by W. J. Bean and in the next for Matilda Smith. The *Journals* which Dunk produced were well illustrated by first class photographs. A striking example is provided by the article "The Factory in a Garden" in the 1929 number.

With the affairs of the Guild very much at heart he spared no effort to place all its activities on record. An example of this is the reminding note covering the history of the Foundation of the Guild which appeared in the 1929 copy. So to 1931, when it was Dunk's sad duty to record the passing of two of the Guild's greatest members and most ardent supporters—Dr. E. H. Wilson, the famous collector, and Major T. F. Chipp, Assistant Director. The Editor included an appreciation of Major Chipp, a "very real friend" of the students, in the publication which followed. It was written by a Kew Student and a fine photograph was included. In the 1933 *Journal* an outstanding photograph—"Four of the former Keepers of the Herbarium" was included with the Obituary for Dr. Otto Stapf, the famous botanist.

So Dunk kept pace with the years until 1938, the year when Mr. J. Coutts was succeeded by Mr. W. M. Campbell as Curator, a year when the whole of the "civilised" world stirred uneasily as the war clouds gathered and spread over from the horizon. (Ernie Dunk's resignation from the offices of Hon. Secretary and Editor of the Guild was formally mentioned in the A.G.M. 1937).

Mr. Dunk was a modest man and few realised the amount of work which he covered. He took part in many local activities and was, for example, a Founder Member of Kew Allotments and Gardens Association (Founded 1936). He was the Association's first Hon. Secretary and Hon. Treasurer, posts which he held for ten years. He then served on the Committee until his death. Mr. Dunk was a successful exhibitor in this Association's shows and also exhibited occasionally at other local shows. He was also Hon. Secretary of the Kew Social Club for a number of years.

Mr. Dunk retired in 1958 during a period of illness and he suffered from ill-health during his retirement. He passed on quite suddenly on 15th December, 1963. Saluting the memory of one of Kew's most faithful servants we sent our sincere sympathies to his widow and to his daughter, Mrs. Audrey Sceats (Scientific Assistant in the Herbarium, 1953-61).

R. H. LOCKE, O.B.E.

In the last issue of the *Journal* it was our sad duty to announce the death of Mr. R. H. Locke in July, 1953. Despite our appeal we have not had any further details of his career, but it was undoubtedly very noteworthy. He left Kew in 1904. For some years he served in Delhi where his post was a varied one, his principal charge being the garden of the Red Fort. Two important durbars were held in Delhi during his terms of office and he was given the O.B.E., in recognition of his services. The photograph which we have the honour to reproduce was sent to us by the late J. E. Leslie* together with above information shortly before he himself died. To use Leslie's words, "this enlargement is taken from a group photograph at the time he went on leave in 1925. The group is an interesting one of the whole of the Old Delhi Staff."

Mrs. Locke sailed for Rhodesia after her husband's death intending to rejoin her son. Perhaps an old Kewite in Rhodesia is acquainted with them and can pass on our sympathies ?

* K.G.J. (1962), Vol. VIII, No. LXVII, p. 205.

SIR GEOFFREY EVANS, C.I.E., M.A.

It is with regret that we report the death of Sir Geoffrey Evans who from 1938 to 1953 was Economic Botanist at Kew, and after the sudden death of Sir Arthur Hill in 1941 acted as Director of the Gardens until 1943.

Born at Walmersley in Lancashire in 1883 he entered Downing College, Cambridge in 1901, gaining the Natural Science Tripos and the Diploma in Horticulture. For the next 32 years most of his life was spent abroad, starting with his appointment to the Indian Agricultural Service in which he held various posts including Principal of the Agricultural College at Nagpur and finally Director of Agriculture in Bengal. During the First World War, as an officer trained in the Indian Army Reserve, Evans saw active service in Iraq. He was appointed director of agriculture to the Mesopotamia Expeditionary Force with rank of colonel.

Leaving India in 1923 he moved to Australia, where he became Director of Cotton Culture to the Queensland Government. During his stay in Australia he also managed visits to Fiji, Papua and New Guinea to advise on possibilities of extending cotton production. In 1926 he joined the Imperial College of Tropical Agriculture in Trinidad. He was confirmed as principal in 1927 and held the post until 1938, being created a Knight Bachelor in 1934.

1938 saw his return to England to become Economic Botanist at Kew, where he remained until his retirement in 1953. Many old members of Kew will remember him as Captain of the original Local Defence Volunteer Force of 54 men raised in the Gardens at two days' notice, and later as the Commander of the Richmond Home Guard. Whilst at Kew he still found time to act as a member of the Committee for Higher Education in West Africa during 1943-44 and as Chairman of a commission to British Guiana and British Honduras to explore the possibilities of settlement of people from over-populated West Indian islands in 1947-48.

After his retirement from Kew he continued to take an active part in the management of the National Pinetum at Bedgebury, on whose Committee he served as Chairman and member for 22 years. He was held in great esteem by all who worked under him because of his genuine interest in their work and in their personal problems.

Sir Geoffrey died quietly at his home in Mayfield, Sussex, aged 80, and leaves a wife and two daughters to whom we express our very deep sympathy.

A memorial service was held at Tidebrook Church, Sussex, on 23rd August, 1963. Almost 100 friends and relatives attending including Sir George Taylor and several members of the Kew and Bedgebury Staffs.

A. WESTALL, Supervisor, Bedgebury Pinetum. A full page photograph of Sir Geoffrey appears in Kew Guild Journal, 1943, opposite page 219.

Four years ago, in 1959, Sir Geoffrey visited Kew and walked round the Arboretum. He stopped to speak to one of the labourers whom he had known so many years earlier. Sir Geoffrey remembered his name, they were obviously delighted to meet each other and both took a keen interest in each other's well being. Industrial disputes would be rarer if such relations were commonplace today.

FREDERICK GEORGE COUSINS, A.H.R.H.S.

This grand Old Kewite died in November, 1963, aged over 80. Cousins, who will be remembered as the Superintendent of Parks at Torquay from 1926 until he retired in November, 1947, was a Devonian and an old boy of Axminster Grammar School. Starting his horticultural training as an apprentice with Messrs. Veitch & Sons, Exeter, he worked for two years as an improver at the Streatham Hall Gardens, now the site of Exeter University. He entered Kew in June, 1906, starting in the Palm House. He became Sub-Foreman in the Palm House in May, 1907.

Leaving Kew in 1911, Cousins served for a time as a 'Gooseberry Mildew Inspector' under the Kent County Council. During the first world war Mr. Cousins was appointed an inspector under the food production department of the Ministry of Agriculture and Fisheries. Serving for a short period in the R.A.F. he joined Messrs. Bees of Chester and then became Superintendent for the Royal Botanic Society at Regents Park where he conducted a school of horticulture. He resigned to take charge of Sir Philip Sassoon's estate and gardens at Port Lympe before going to Torquay.

Cousins was a man of great capability. He was a Past-President of the Institute of Parks Administration and a previous chairman of the West of England branch. He was also examiner for the Royal Horticultural Society and had in addition judged for many years at Chelsea Flower Show. The parks and gardens at Torquay serve as monument to Frederick George Cousins, the man who added so much to their beauty.

We send our sincere sympathies to his relatives.

RALPH ANTONY BLAKELOCK (1915-1963)

After some years of failing health, R. A. Blakelock, B.Sc., F.L.S., died suddenly at his London residence on Friday, 31st May, 1963. He came to Kew in 1937, at first assisting the late Mr. A. D. Cotton (then Keeper of the Herbarium) with work on the African arborescent Senecios, but soon afterwards moved into the Europe and Orient Department of the Herbarium, staying there for the remainder of his career. Gardeners will remember Mr. Blakelock especially for his detailed survey of the difficult genus *Euonymus*, published during 1950 in the *Kew Bulletin*; but he had much wider botanical interests and was, until his early death, occupied with the compilation of a Flora of Iraq, in connection with which he had written many learned papers. He will also be remembered for his association with two remarkable discoveries : the finding of *Diapensia lapponica* near Fort William (1952) and the extremely rare *Artemisia norvegica* near Ullapool (1953).

Mr. Blakelock, in addition to his extensive botanical knowledge, had a deep and genuine love of flowers, and many of the older members of the Kew staff must often have seen him, usually during the lunch hour, strolling slowly and thoughtfully, pipe in mouth, through the Gardens, and pausing here and there to examine some particular plant which had caught his attention. He was tall and rather gaunt in build, with dark features and a quiet, gentle manner; although at first meeting seemingly reserved or even taciturn, he was in fact always ready to listen patiently to an enquiry and to furnish a full and informative reply from his astonishing store of scientific and historical knowledge. He will be very much missed by all his colleagues at Kew.

R. D. MEIKLE.

HERBERT RITCHINGS

In our last issue we announced the death of H. Ritchings on 31st December, 1962. Born on 6th October, 1902. Ritchings entered Kew in April, 1924, after spending 6 years in practical work including 2 years at Suttons Seed Trial Grounds and 2 years at the John Innes Institute, Merton. At Kew he served in the Tropical and Decorative Departments and gained distinctions in many subjects including Economic Botany in which he was awarded 100%.

In 1927 he left Kew for Kuala Lumpar, in the Malay States. In 1928 he was in Port Dickson and later went to such places as Penang, Brueni, Singapore and Shanghai, where he was Superintendent of Parks and Open Spaces from 1932/1937. Altogether he was over 27 years east of Suez. A knowledgeable and talented gardener, Ritchings had a most retentive memory for plant names. He was a C.Q.M.S. in the Shanghai Volunteer Corps.

After his retirement from the Colonial Service in 1957 he attended the Kew Dinners of 1957, 1958 and 1959. He had a keen sense of humour, was a first class sportsman and a member of the Berkshire Old Comrades Association. In the words of a friend of the family, "another vacant place has occurred in the ranks of those who have helped to bring prosperity and independence to the peoples of the Malayan Peninsula". We send our sincere sympathies to his sister, Mrs. Phyllis Metcalfe.

A. D. COTTON, O.B.E., V.M.H., F.L.S.

Kewites will have learned with regret of the death of Mr. A. D. Cotton reported in the last issue of the *Journal*. Arthur Disbrowe Cotton was born in London on the 15th January, 1879, and educated at King's College School. His love of plants was evident in his early days and after attending a course of lectures on botany at Chelsea Physic Garden his interest in the subject increased.

On leaving school he started training in practical horticulture in a florist's nursery and later at the Royal Horticultural Society's Gardens at Chiswick where he gained a first class certificate in the Society's general examination.

Taking up botany as a profession he became a student at the Royal College of Science, London, under Professor J. B. (later Sir John) Farmer, and decided to specialise in Algae, Lichens and Fungi. He was appointed Assistant Demonstrator in Botany at Owens College, Manchester, in 1902, and later became Assistant Lecturer at the same College. In 1903 he was offered, and accepted. a post as Assistant in the Cryptogamic Department of the Herbarium at Kew under George Massee. He took up his duties on 1st April, 1904, and while at Kew gave lectures on botany and plant pathology to the student-gardeners. In 1915 he took charge of research on plant diseases in the Laboratory at Kew and later at Harpenden. Hertfordshire, when he was transferred to the staff of the Ministry of Agriculture's new laboratory for plant diseases established there during the first world war. In the year 1919 he attended the International Phytopathological Conference at Ithaca. United States. afterwards travelling in Canada and the United States where he studied the seed potato problem. Cotton was fully alive to the importance of pure seed potato centres and he therefore visited these areas in Scotland on his return, instructing growers in the recognition of virus diseases and the harmful results of the use of infected seed.

Cotton succeeded Dr. Stapf as Keeper of the Herbarium and Library at Kew in 1922 where he remained until his retirement in 1946. As Keeper he was responsible for the incorporation of thousands of arrears of specimens which had accumulated at Kew over a period of many years. He also saw electric lighting installed, while a new wing was added to the Herbarium during his Keepership. Although he maintained his interest in the algae and fungi he grew more interested in the flowering plants, becoming an authority on the genus Lilium. In collaboration with A. Grove he produced the Supplement to Elwes' *Monograph of the Genus*. I myself was privileged at this time to assist him with the Supplement and other work and well remember his great charm, friendly encouragement and understanding that made working for him a pleasure.

In 1941 he was requested by the Royal Horticultural Society to edit volume 164 (1942-46) of the *Botanical Magazine* after the death of Sir Arthur Hill. In 1944, for his valuable contributions to our knowledge of the genus Lilium the Council of the Royal Horticultural Society honoured him by making him the holder of the Lyttel Lily Cup. The *Lily Year Book* for 1961-1962 was dedicated to him as also was volume 172 (1958-59) of the *Botanical Magazine*. His many services to botany and horticulture were recognised in 1943 when the Society awarded him the Victoria Medal of Honour.

Cotton attended the meetings of the British Association for the Advancement of Science at Johannesburg in 1929 while on an official visit to South and East Africa. He also availed himself of the opportunity to visit herbaria and other botanical establishments in South Africa and in this way to encourage closer relations between these institutions and Kew. While in Africa he and Dr. A. S. Hitchcock, the United States Agrostologist, ascended Mt. Kilimanjaro making a collection of plants there. This collection included a new species of tree Senecio which was later described as *Senecio cottonii* Hutch. and G. Taylor. His interest in these remarkable plants from east tropical Africa continued for several years and as a result of his studies he published a number of papers on them. An account of his expedition was given in the *Kew Bulletin* (1930) and also in the *Journal* of the Kew Guild (iv, 1930).

Cotton was an active member of the British Mycological Society, its President in 1913 and on its Council at the time of his death. He was a Fellow of the Linnean Society from 1902-62, its President from 1943-46, Vice-President (1927-28 and 1946-47) and a member of the Council for several years. He was a member of the Association of Applied Biologists serving on the Council from 1917-21 and a Vice-President from 1923-24. He was also a member of the British Ecological Society.

On his retirement he and his wife went to live at Pitchcombe, Gloucestershire. Continuing to take an interest in botany he joined the Cotswold Naturalists Field Club becoming a member of the Council in 1947-49. After the death of his wife he went to live with his daughter in Hertford where he died on the 27th December, 1962.

Cotton served under the directorships of Sir William Thiselton-Dyer, Sir David Prain, Sir Arthur Hill, Sir Geoffrey Evans and Sir Edward Salisbury. In 1934 he was awarded the O.B.E. for his contributions to botany. He was elected President of the Kew Guild (1940-41), taking a great interest in its affairs and the welfare of the Student Gardeners. He edited its *Journal* during the difficult war years.

A man of sincere and gentle character, always ready to help others in times of difficulty, a very loyal Kewite, he generously gave of his best to further the advancement of Kew and to promote its interests in every possible way.

H. S. MARSHALL.

CECIL HAZEL

We regret to record the death of Mr. C. Hazel, who died in July, 1963. He began in horticulture as a boy in nurseries at Shirley in Birmingham, his home town. He later worked at the Edgbaston Botanic Gardens, studying at night school. From there he went to the Botanic Gardens in Manchester. Hazel entered Kew in January, 1914 but left to join the R.A.M.C. in May, 1915. His return to Kew was in July, 1919.

At the end of 1919 Hazel was appointed as Assistant Agricultural Officer in Uganda. While he held this post he made a collection of flora which was sent to Kew. Later he was in charge of the Botanic Garden at Entebbe. For the last few years he was engaged in tobacco growing. In all he served in Uganda for 20 years.

We mourn the passing of this keen Kewite who had a great knowledge and love of plants. We also send our sincere sympathies to his wife, Mrs. M. D. Hazel and to their two daughters, who were born in Uganda.

We also regret to record the deaths of the following Old Kewites : ---

Mr. F. G. Preston (1909), Guild President 1949-50, on 8th January, 1964.

Mr. F. G. Walsingham (1913), on 14th February, 1964.

Mr. A. Osborne (1945), Guild President 1933-34, on 24th February, 1964.

Miss Edna Mary Gunnell (1901), on 16th February, 1963.

*Mr. John Mackay (1901).

*Mr. Neville Kyrle Clark (1909).

*Mr. John Ellis (1915).

*Mr. Frank Birkinshaw (1912).

*Mr. Leo Bernard James Miller (1933).

*Mr. G. Hopkins.

We intend to publish suitable obituaries for these in the next issue of the *Journal* but we would like more information upon those marked with an asterisk.

We send our sincere sympathies to Mr. Harry Hall (1933), of the National Botanical Gardens, Kirstenbosch. His wife, Mrs. Winifred Hall, was killed in a motor car accident in Cape Province on July 28th. Mrs. Hall was a former resident of Kew and her mother, Mrs. L. Frost, is a well known resident.

Mr. Sidney Robinson, who was Head Carter at Kew until he retired in 1959, died in December, 1963. He had worked at Kew for 47 years and could remember the five horses and a pony which were employed in the Gardens in 1912—Kitty, Tom, Charlie, Bill. Patsy and Little Tom. Charlie, Patsy and Bill served in the 1914-18 war. Other horses which were personalities to Sidney, who loved them so well, were—Polly, Punch, Judy, Duke, Daisy, Sissie, Boxer, Polly, Patsy, Captain, Arthur, Zenobia and Blossom. With thoughts of bygone days we send our sincere sympathies to his widow.

KEW STAFF LIST

(As on 31st December, 1963)

* Life Member of The Guild. † Past President of The Guild. ‡ Formerly a Student Gardener.

F.ntered Kew

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Deputy Director, Keeper of Herbarium			
and Li	brary (I	D.C.S.O.)	
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Dotanist	(Dentilam-WOADH)	

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Sir George Taylor, D.Sc., F.R.S.E., F.L.S., V.M.H	1956
F.L.S., V.M.H	1930
‡†C. E. Hubbard, O.B.E., D.Sc., F.L.S.	1920
R. W. King, D.F.C	1959
B. W. Brownsey	1962
R. Fender	1958
S. J. Williamson	1959
Mrs. A. M. E. Kendall	1947
G. F. Lamb	1951
G. Calcutt.	1959
H. D. Barlow	1961 1961
F. A. Cole. Mrs. S. M. Shury	1961
Miss I. C. McFarlane	1959
Mrs. L. A. Kell	1948
Mrs. R. E. Fairbanks	1962
Mrs. F. I. Hughes	1962
Miss B. Saunders	1961
Mrs. M. Longman	1947
Miss M. D. Ball	1962
E. W. B. H. Milne-Redhead, T.D.,	
M.A., F.L.S.	1929
R. Melville, B.Sc., Ph.D., F.L.S	1934
V S Summerhaves OBE BSc	1924
V. S. Summerhayes, O.B.E., B.Sc. N. Y. Sandwith, M.A., F.L.S.,	
 F.R.G.S., R. W. G. Dennis, B.Sc., Ph.D., A. A. Bullock, B.Sc., FL.S., J. D. M. Denrier, M.A. D.Se., FL.S., 	1924
R. W. G. Dennis, B.Sc., Ph.D	1944
J. P. M. Brenan, M.A., B.Sc., F.L.S.	1929 1948
J. B. Gillett, M.A., F.L.S. (D.T.C.)	1949
*J. R. Sealy, B.Sc., F.L.S.	1927
J. B. Gillett, M.A., F.L.S. (D.T.C.) *J. R. Sealy, B.Sc., F.L.S. R. D. Meikle, B.A., LL.B., F.L.S.	1947
 K. D. Hikke, B.A., E.L.B., T.E.S. W. D. Clayton, B.Sc., A.R.C.S., F.L.S. D. A. Reid, B.Sc., F.L.S. F. N. Hepper, B.Sc., F.L.S. L. L. Forman, B.Sc., F.L.S. Miss F. M. Jarrett, M.A., Ph.D., F. S. 	
F.L.S.	1958
D. A. Keid, B.Sc.	1951 1950
I I Forman BSc FIS	1950
Miss F. M. Jarrett, M.A., Ph.D.	1751
F.L.S.	1959
P. F. Hunt, M.Sc., F.L.S.	1959
E. R. Guest, B.Sc., A.R.C.S., A.I.C.T.A. (Iraq)	
A.I.C.T.A. (Iraq)	1959
C. Jeffrey, B.A. R. M. Polhill, B.A., F.L.S. (D.T.C.)	1957 1961
D. R. Hunt, M.A. \dots	1961
A. R. Smith, B.Sc., A.L.S.	1962
G. Ll. Lucas, B.Sc., F.L.S. (D.T.C.)	1963
G. Ll. Lucas, B.Sc., F.L.S. (D.T.C.) R. K. Brummitt, B.Sc., Ph.D. (F.L.	
Zamb.)	1963
H. K. Airv Shaw, B.A.	1925

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Experimental Officer.....

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P. G. Taylor, F.L.S J. K. P. Kennedy-O'Byrne, F.L.S. J. R. Tennant, B.Sc., F.L.S. (D.T.C.)	1948
I K P Kennedy O'Byrne FIS	1948
I D Topport PSo EI S (DTC)	1956
J. R. Tennant, B.Sc., F.L.S. (D.T.C.) Miss S. S. Hooper, B.Sc., F.L.S Miss M. I. Skan, M.B.E D. Philcox, M.I.Biol., F.L.S C. C. Townsend.	1950
Miss S. S. Hooper, D.Sc., F.L.S	
Miss M. I. Skan, M.B.E.	1919
D. Philcox, M.I.Biol., F.L.S	1959
C. C. Townsend	1959
M. J. S. Sands	1959
M. J. S. Sands M. Evans D. V. Field, B.Sc. D. N. Pegler, B.Sc Miss J. K. Bowden, B.Sc	1959
D. V. Field, B.Sc	1960
D. N. Pegler, B.Sc.	1960
Miss J. K. Bowden, B.Sc	1949
Mrs. D. E. M. Evans Mrs. D. L. Smith, B.Sc. (Miss	1959
Mrs. D. L. Smith, B.Sc. (Miss	
Wood) (D.T.C.) Miss J. Forster	1963
Miss J. Forster	1947
Miss I. Blewett	1941
Miss S. V. Underwood	1962
Miss S. V. Underwood Mrs. J. L. M. Pinner (Miss Fletcher)	1952
J. L. Gilbert (Index Kewensis)	1956
Miss P. Halliday	1947
Miss I. McEwan	1956
Miss J. McEwan Mrs. P. Z. Kennedy-O'Byrne	1)50
(Currie)	1955
(Cyprus) Miss A. C. Uchlein Miss D. Moscoff (D.T.C.)	1955
Miss D. Moscoff (DTC)	1955
Miss D. Moscoli (D.1.C.)	1957
Mrs. D. B. Hunt (Miss Cousins)	1057
(D.T.C.)	1957
Miss V. Mann	1958
Miss T. A. Bence.	1958
Miss T. A. Bence Mrs. S. K. Low (Miss Walton) Mrs. F. L. Barber (Miss Mills)	1959
Mrs. F. L. Barber (Miss Mills)	1960
N. H. Sinnott Mrs. M. J. Bowen-Jones Mrs. F. Neate (P/T D.T.C.)	1963
Mrs. M. J. Bowen-Jones	1963
Mrs. F. Neate $(P/T D.T.C.)$	1963
Mrs D M Bridson (Miss Shen-	
Miss S. I. Willsher (Bentham- Moxon)	1963
Miss S. I. Willsher (Bentham-	
Moxon)	1963
S. A. Renvoize (F. Zamb.)	1963
Miss Carder	1955
R. R. Zabeau	1956
Miss M. A. Grierson	1960
R. G. C. Desmond, F.L.A.	1961
R. Davidge, B.A., A.L.A.	1958
Miss K. E. W. Rattue, A.L.A	1961
Miss M. Kierans	1934
Mrs. P. G. Warris.	1961
Miss H. M. White.	1959
R. R. Zabeau. Miss M. A. Grierson. R. G. C. Desmond, F.L.A. R. Davidge, B.A., A.L.A. Miss K. E. W. Rattue, A.L.A. Miss M. Kierans. Mrs. P. G. Warris. Mrs. H. M. White. Mrs. E. J. Everitt. Mrs. D. G. Marsh	1936
	1962
Mrs H Wootton	1949
Miss D. J. Bowman	1953
Mrs. L. C. F. Glenister	1956
Mrs D I Mitchell	1959
Mrs M. W Glover	1960
Miss D. J. Bowman. Mrs. L. C. F. Glenister. Mrs. D. J. Mitchell. Mrs. M. W. Glover. Mrs. H. Dzilna	1954
Mrs. O. V. Skan	1959
Mrs. Q. V. Skan Miss I. L. Taylor Mrs. V. E. Baker	1959
Mrs V F Baker	1959
Mrs. D. B. Boaler.	1962

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Experimental	Officer (Guide Lecturer)
Information	Officer
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	Kew
P. Heawood	1956
G. D. Gibbs	1958
Miss G. M. Pring Mrs. I. I. Scott	1954
Mrs. I. I. Scott.	1963 1963
Mrs. E. A. M. Shapley	
Miss G. M. N. Briggs	1962
Miss E. Huckett.	1963 1961
Mrs. I. M. Chambers	1951
Mrs. M. Brind	1955
Miss M E Long (DTC)	1952
Miss V A Cole	1960
Mrs B Powney (DTC)	1963
Miss P. A. Godfrey	1960
Mrs. B. F. Saunders. Miss M. E. Long (D.T.C.). Miss V. A. Cole. Mrs. B. Powney (D.T.C.). Miss P. A. Godfrey. W. A. Mullins.	1942
C. R. Metcalfe, M.A., Ph.D., F.L.S. K. Jones, B.Sc., 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
Miss M. Y. Stant, B.Sc., Ph.D D. F. Cutler, B.Sc., F.L.S C. J. Marchant, B.Sc Miss M. Gregory, B.A	1962
Miss M. Gregory, B.A	1961
F. Kichardson	1934
J. B. Smith, B.Sc.	1962
Miss D. M. Catling	1950
Miss M. Thompson Miss B. M. Young	1963
Miss B. M. Young	1963
F. N. Howes, D.Sc	1925
T. A. Russell, B.Sc., A.R.C.S. A.I.C.T.A., Dip. Agric Miss R. C. E. Angel, B.Sc Mrs. B. Christopher, N.D.D	
AICTA Din Agric	1954
Miss R. C. E. Angel, B.Sc.	1959
Mrs. B. Christopher, N.D.D.	1960
A. J. Parkes	1960
A. J. Parkes Mrs. D. M. Richards	1961
R. E. Lycett.	1963
Miss V. Horwill	1951
*‡L. Stenning, M.B.E., A.H.R.H.S ‡S. A. Pearce, M.B.E., A.H.R.H.S.,	1925
IS. A. Pearce, M.B.E., A.H.K.H.S., F.Inst.P.A. (Arboretum North)	1928
‡G. H. Preston, F.L.S. (Herbaceous)	1928
*†S W Rawlings A R P.S. (Tropical)	1936
* [‡] S. W. Rawlings, A.R.P.S. (Tropical) [‡] J. E. S. Souster, N.D.H., F.L.S.	
(Temperate) ‡G. E. Brown, N.D.H. (Arboretum S.)	1941
tG. E. Brown, N.D.H. (Arboretum S.)) 1946
G. J. E. Yates, N.D.H. (Decorative)	1961
G. H. Anderson, B.E.M. (Palm	1010
House) H. J. Jackman (Decorative)	1940
H. J. Jackman (Decorative)	1949
W. Bridle (Temperate House Pits) H. Bruty (Ferneries-Tropical)	1946 1946
P. G. Shutler (Arboretum)	1946
E. W. Macdonald (Succulents-	
Tropical)	1950
Tropical) ‡A. J. Hale (Temperate House)	1955
‡F. Larkbey (Decorative)	1947
[‡] G. Nicholson (Orchids—Tropical)	1947
‡A. G. Cook (Herbaceous and Rock	10/0
Garden—Prop.)	1948

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En	tered
	Van

Foreman	Gardener		‡R. I
**	**		R. J
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Shorthand	1 Tuniet		Mis
Storekeep			C. 1
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		ests Operator	H.
Seed Col	lector	••••••	J. N
**			J. N
Gardener	Grade I.		C. '
	,,		С.
"			F. L
			H.
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**	"	•••••	J. H
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C."	,,	• • • • • • • • • • • • • • • • • • • •	P.
	BULARY		
Sergeant	in Charg	e	W.

	new
R. I. Beyer (Alpine and Herbaceous)	1959
R. J. Sadler (Arboretum N.)	1951
A. D. Schilling (Arboretum Prop.)	1959
J. B. Simmons, N.D.H. (Tropical	
Prop.)	1958
A. D. Stevens	1956
Miss A. G. Barton	1953
C. R. Claxton	1960
H. Allen	1958
J. Mateer	1952
J. M. Latto	1957
C. W. Preston	1922
C. H. Bowditch	1958
F. L. Burnell.	1946
H. Hockley	1942
F. H. Jackman	1940
J. Slater	1945
R. Rule	1956
J. Pruuden	1956
B. J. W. Bernard	1960
P. M. Lambie	1961
M. J. Harrington	1960
E. A. Pooley	1935
Miss G. Dawson	1959
W. A. Mullins	1942
R. Laws.	1962
P. Spedding	1961
	-201
W. Leaver, B.E.M.	1935

STUDENT GARDENERS.

Name	Entered Kew	Name	Entered Kew
J. D. Helliwell		M. H. Dodge	1962
P. H. Bridgeman	. 1962	C. Popham	1962
A. D. MacArthur	. 1962	R. Trewinard	. 1962
C. S. Pead	. 1962	R. F. Deans	
Miss J. G. H. Trutch,	. 1962	R. Marshall	1962
D. N. Pierce	. 1962	M. Bentall	1962
A. Armony	. 1962	R. Davenport	1963
R. H. S. Winter	. 1962	C. M. Duncan	1963
G. Spate	. 1962	J. N. Fisher	
J. R. Woodhams	. 1959	H. J. Fliegner	. 1963
Miss M. J. Dennis	. 1962	D. S. Harris	1963
Miss L. Tickner	. 1962	P. Kilby	. 1963
B. J. Salter	. 1962	F. A. Overland	1963
J. Elsley	. 1962	D. F. Pearson	1963
Miss K. Burlingham	. 1962	C. W. Roome	

FIRST-YEAR STUDENT GARDENERS OF THREE-YEAR COURSE (Commenced 7th October, 1963)

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

IMPROVERS AND BOYS.

A. E. Horrocks, D. J. Windle, D. Newman, R. J. Ardley, D. R. Tarbard, C. W. Hinde, Miss C. A. Brown, S. G. Cole, G. T. Brooks, M. Freak, M. S. Macken, A. E. Shuttleworth, H. N. Goddard, A. R. Keevil, A. R. Smith, J. Dodd, M. Kelly, H. J. A. Keamealy, M. R. Norton.

POSITIONS TAKEN BY STUDENTS LEAVING KEW IN 1962

Student, The Grotto, Institute of Park Administration.
Student, The Grotto, Institute of Park Administration.
Charge-hand, Southend Parks Department.
Technician, University of London.
Head Gardener, University of Agricultural Engineering, Silsoe.
Student, The Grotto, Institute of Park Administration.
Liverpool Parks Department.
Student, The Grotto, Institute of Park Administration.
Technical Assistant, Southall Parks Department.
Teachers' Training College, Worcester.
Head Gardener, Manchester Parks Department.
Superintendent, Presidents House, Rawalpindi.
Head Gardener, Castle Harbour Hotel, Bermuda.
Parks Department, London County Council.
Head Gardener, Tresco Abbey Gardens, Isles of Scilly.
Horticulturist, Johannesburg Parks Department.
Senior Gardener, Charlbury.
Student, The Grotto, Institute of Park Administration.
Field Station Ditchleys, Queen Mary College.

PREVIOUS POSITIONS OF STUDENTS ENTERING KEW DURING 1963

The last intake of Two-year Students.

Commenced 1st April, 1963.

Davenport, R.	Improver, Kew.
Duncan, C. M.	Glasgow Parks Department.
Fisher, J. N.	Manchester Parks Department.
Fliegner, H. J.	Munich Botanic Gardens.
Harris, D. S.	Improver, Kew.
*Howard, B. F.	Hampshire Farm Institute, Sparshott.
Kilby, P.	Wood Green Borough Council.
Overland, F. A.	Manchester Parks Department.
Pearson, D. F.	Middlesbrough Parks Department.
Roome, C. W.	Derby Parks Department.

First Students of Three-year Course, commenced 7th October, 1963.

irst Students of Three-year Course, commencea Ith October, 1963.	
Barber, A. V. H.	Southport Parks Department.
Barnes, A. L.	Poole Parks Department.
Brazier, P. J.	Self-employed.
Bowen, R. D.	Worthing Parks Department.
Edwards, R. K.	Improver, Kew.
Endall, J.	Improver, Kew.
Gordon, C. E. B.	Plant Protection, Fernhurst.
Hart, C.	A. G. Sparks, Ltd., Chrysanthemum Nurseryman,
Harrington, M. D.	Plant Protection, Fernhurst.
Hitchin, P. D. M.	Middlesbrough Parks Department.
*Howard, B. F.	Transferred from Two-year Course.
Ince, R.	Wakefield Parks Department.
Jones, J. E. M.	Folkestone Parks Department.
Lee, M. K.	Improver, Kew.
Mitchell, J.	Rochdale Parks Department.
O'Connor, J.	Manchester Parks Department.
Robinson, K.	Liverpool Parks Department.
Turner, A. P.	Johannesburg Parks Department.
Waddell, D.	Improver, Kew.
Wilson, Miss M. C	Rothampstead Research Station.
Wilson, P. E.	Cheltenham Parks Department.

* Transferred to Three-year Course.

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.
- Addison, P., N.D.H., 14 Taunton Road, Wallasey, Cheshire. Adshead, P., Rothley, Kingsgate Road, Winchester. 1957.
- 1960.
- 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.
- *Airey, J. E., Westmoor Gardens, Mansel Lacy, Hereford. 1939.
- 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., Horticultural Planning Assist., Stevenage New Town, Stevenage Borough Council, Herts. c/o Mrs. Dawling, 14 Essex Road, Stevenage (Herts.).
- 1946. Allen, Miss B. (See Mrs. F. Christopher).
- 1948. Allen, F. H., Coombe Villa, Wotton-under-Edge, Glos.
- 1961. Allen, J., Red Cottage Gardens, Ltd., Landscape Trees, Ltd., The Arcade, Camberley, Surrey. Allison, B. W., D. Parks Dept., Salford, Lancs.
- 1930.
- 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), 193 Kew Road, Richmond.
- 1957. Amoah, G. K. A., Ministry of Works and Housing, P. & Gdns. Div., P.O. Box 43, Accra, Ghana. *Anderson, A. W. C., N.D.H.(N.Z.), 224 Church Street West, Timaru, N.Z. Andrews, B. R., Park Dept., City Hall, Edmonton, Alberta, Canada.
- 1926.
- 1956.
- 1947. Andrews, R. H., 67 Chiltern Avenue, High Wycombe, Bucks.
- *Andrews, W. G., 15 Lindsay Avenue, Levenshulme, Manchester, 19. Anwyl, R. B., 234 Abbotsbury, Kings Beach, Pagham, Sussex. 1922.
- 1962.
- Appleby, J., 53 Rathbone Road, Wavertree, Liverpool, 15. 1954.
- 1947. *Armstrong, C. E., N.D.H., H.L., Kesteven Farm Inst., Caythorpe Court, Nr. Grantham, Lincs.
- 1931.
- *Arnold, T. A., 157 Jeppe Street, Johannesburg, S.A. Ash, Mrs. W. (E. M. Harper), 22 Palace Court, Hampstead, N.W.3. 1920.
- 1956.
- Ast, R., Duggelistrasse, 9, Cham/Z.G., Switzerland. Atkins, L. G., N.D.H., 14 Wharfedale Drive, Fosse Estate, Newark Road, 1931. Lincoln.
- 1958. Atkinson, Miss A. L. M., N.D.H., Jardin Botanique, Les Cédres, St. Jean-Cap-Ferrat (A.M.), France.
- 1960. Atkinson, G., Kew Cottage, Calstock Road, Gunnerslake, S.E. Cornwall.
- Attenburrow, D. C., c/o D. of Agriculture, P.O. Box 338, Nairobi, Kenya. 1954.
- 1950. Attwood, C. A., School Ground Dept., The Willows, Morpeth, Northumberland.
- *Aubrey, A. E., 83 Newbridge Street, Wolverhampton, Staffs. Avery, Edwin, 2 Newport Road, Barnes, S.W.13. 1910.
- 1946.
- 1939. *Aves, J. J., D.S., P.O. Box 1454, Parks Dept. Pretoria, S.A.
- Bachelor, P. L., Glenchairn, Dover Ridge Avenue, Carlton, Nottingham. *Badgery, R., 47 King's Ash Road, Paignton, Devon. 1935.
- 1906.
- 1920.
- 1947.
- Baker, E., The Myrtles, Bucknells Lane, Yarston, Herts.
 Baker, M. E., 18 Jealotts Hill, Warfield, Berks.
 *Balch, R. W., N.D.H.(N.Z.), A.S. of Reserves, 32 Montague Road, Dunedin, New Zealand. 1939.

Annual Subscriptions.

- (7) The Annual Subscription which shall be payable on January 1st of each year shall be such a sum as the Annual General Meeting shall from time to time determine and shall entitle members to all publications of the Guild. A member whose subscription is one year in arrears shall not receive further publications until his arrears be fully paid. The annual subscription is at present 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 (including three Old Kewites) shall retire annually in rotation and shall not be eligible for reelection for at least twelve months. 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.
- ((2) 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 nonreceipt 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 threequarters 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.