

HERMAN SPOONER

Very different is the new President's life from that of Mr. G. Pring, whom he succeeds in the Presidential Chair.

Born on July 4th, 1878, at Lawford, Essex, on the Suffolk border, in what is known as Constable's country, he has, since entering Kew in 1900, scarcely left the London area, as will be seen from these remarks.

Inspired by the career of his Uncle, Edgar Spooner, who entered Kew in 1873, and was sent to fill a post in India, at Lahore in the Punjab, young Spooner decided on a similar career. He started work at Lawford Hall Gardens and whilst there was granted periods of leave to attend courses of instruction at the Chelmsford County School of Horticulture, where the practical work was taught by Charles Wakeley, an old Kewite, who encouraged him to enter Kew. At the School Examination in 1895, our President was awarded a County Scholarship tenable to two years at the Royal Horticultural Society's Gardens then at Chiswick, under Mr. S. T. Wright, an authority on fruit-growing in those days. Students had to attend the R.H.S. Meetings then held at the London Scottish Drill Hall in Buckingham Palace Road, and assist at the various judging Committees; Spooner was attached to the Orchid Committee for most of his time.

Chiswick being close to Kew, it was natural that he spent much of his time there, and he eventually entered the Gardens as a student in 1900. Starting in the Temperate House under W. Dallimore, followed by a spell in the Palm House with C. P. Raffill, he passed to the Decorative Department under F. Garrett and finally to the Melon Yard pits under W. Hackett. Of a studious nature, he was especially keen on J. R. Jackson's lectures on Economic botany given in the Museums, and the "Mutual."

The Kew Guild was inaugurated during his period at Kew, and he is one of the original members. Leaving Kew in 1901, he was disappointed that no Colonial post was available, but the great firm of Messrs. James Veitch & Sons, of Chelsea, had applied to Kew for a man to undertake their catalogues and to act as botanical assistant. This post he accepted, and although rather against the grain, he settled down and found it most interesting work. His predecessor in the post was Adolphus H. Kent, author of Veitch's "Manual of Coniferae," and Veitch's "Manual of Orchidaceous Plants."

Besides the Chelsea Nursery, the firm had others at Southfields, Fulham (now a Public Park), at Coombe Wood, Kingston Hill; at Langley near Slough, and at Feltham, Middlesex; and Spooner had to visit these periodically and keep in touch with their activities. At this time E. H. Wilson was sending home seeds and specimens collected on his China travels for the Veitchian firm and it was through dealing with the correspon-

dence in this connection that he and Wilson developed a close friendship which lasted until Wilson's tragic death in October, 1930.

For the Jubilee of the Veitchian Firm, which occurred during his term with them, he compiled the material for that unique volume, *Hortus Veitchii*, a record of the many introductions of the firm from countries where it had sent as collectors, the brothers Lobb, Pearce, Wallis, Davis, Maries, Curtis, Burke, Wilson and Others; and the hybrid plants and varieties produced in their nurseries at home. Owing to changes in the Veitchian firm, Spooner decided in 1906 to find another post and as Wilson was relinquishing one at the Imperial Institute that he had filled after his second collecting tour in China, our President secured it and became Technical Assistant on the Collections Staff. Later on he became the Curator of the Exhibition Galleries. When one has viewed the vast Galleries and the collections of specimens of Economic products of vegetable, mineral and animal origin, one can imagine that his time was fully occupied in naming, mounting and writing interesting descriptions of them and giving talks to visiting parties. During the 1914 war the Galleries were requisitioned and on their release, the new Director, Lt.-General Sir W. Furse, who had succeeded Prof. Sir Wyndham Dunstan, was in favour of a more popular form of display for educational purposes chiefly for schools, and Dioramas were introduced to illustrate the economic products of the overseas Empire countries. These were made at the Institute by a panel of clever artists retained for this work. When Spooner retired in 1943 there were no less than 130 of these attractive models installed, a fine result after 37 years' service.

As one who has had occasion to seek information, the writer has always found in Spooner a mine of it, and always willing to put one on the right track to obtain more. So, although he could not carry out his original plan for overseas service, I doubt if many men have handled more economic specimens or displayed them to more advantage for the benefit of the British public and overseas visitors than our President has done at the Imperial Institute.

He was a life long friend of the old Kewite, the late Morley T. Dawe, a past President of the Guild and one of its most travelled members. In 1924 he and Dawe made a tour of the Canary Islands, where Dawe was sent to study the Banana and Tomato industries.

From his student days at Chiswick and Kew, and whilst at Veitch's and the Imperial Institute, as well as since his retirement, he has been a most regular visitor to the R.H.S. shows—a record run of half a century. Among his many other interests he is a Fellow of the Royal Horticultural Society; a Fellow of the Zoological Society of London, an active member of the London Natural History Society, of the "Charles Lamb"

Society, and an original member of the Council for the Promotion of Field Studies. His name is commemorated in the plant *Clematis Spoonerii*, Rehder & Wilson, but *Rhododendron Spoonerii* is now sunk under *R. decorum*.

His interest in Sports is confined to "walking with his eyes open" and thus he has acquired an extensive knowledge of the London Parks and Gardens, the Museums, Picture Galleries and Ancient Monuments, and Places of Interest in charge of the National Trust.

As our President, it fell to him to hand over for safe keeping to the Director, the additional plaque erected in the Gardens in memory of those Guild Members who fell in the second world war. This small, but impressive ceremony, took place on November 11th, 1951, in lovely weather for that time of the year.

All Kew Guild Members wish our President still more years in which to explore his London, and to meet his fellow Kewites at the R.H.S. Shows for talks on his many hobbies and interests.

F. S. SILLITOE.

ANNUAL GENERAL MEETING, 1951

The Annual General Meeting was held on Saturday, 25th August, 1951, at 3 p.m. in the Iron Room. The meeting was well attended and the Minutes which had appeared in the *Kew Guild Journal*, were taken as read. The Secretary announced that the name of Mr. W. Rastell had just been received for addition to the list of obituaries. The meeting then proceeded in accordance with the agenda, and proposals for President were invited.

Mr. Spooner was proposed by Mr. Brooks and seconded by Mr. Braybon. Mr. Spooner replied that he greatly appreciated the honour and would do his very best for the Guild during his year of office.

The Hon. Treasurer, Mr. Stenning, was re-elected unanimously, and it was proposed by Dr. Turrill, seconded by Mr. Brooks, and carried that the Hon. Secretaries should be re-elected. It was proposed by Mr. Ballard and seconded by Mr. Spooner, that the members of the Committee should be elected *en bloc*. The Students elected Mr. N. Gilmour as their representative. The two Auditors, already selected, were proposed by Dr. Bor and seconded by Mr. Whipps.

The Treasurer presented the Statement of Accounts and pointed out that the cost of the *Journal* was steadily increasing year by year. At one time it was about £75-£80. Last year it had risen to £210 7s. 0d. and this year prices had again gone up and the bill amounted to £282 10s. 0d. Mr. Stenning

enumerated the balances in the various funds and stressed the fact that additional money would have to be found to meet the future expenses of the *Journal*. It was moved by Mr. Coward and seconded by Mr. Spooner that the accounts be adopted.

Mr. Brooks put forward a proposal that the size of the *Journal* should be reduced by eliminating overseas articles, and he felt that Kewites abroad were more particularly interested in items of news from home. He further suggested that Kewites who did not keep us informed of changes of address should be omitted from the list in the *Journal*. Mr. Hubbard then brought up the point that if the make-up of the *Journal* was altered this would entail altering the rules.

With regard to the alteration and contravention of certain rules by the introduction of new policies, Mr. Campbell pointed out that these things could not wait until the next Annual General Meeting as we were desperately needing money and already were drawing on other funds to pay our way. He suggested that if no agreement could be reached at the meeting, the whole of the members must be circulated and asked to vote on the proposals put forward.

A suggestion was made that the life membership subscription should be increased from £3 3s. 0d. to £5 5s. 0d. and the President (Mr. Preston) suggested that the word "member" should be replaced by "subscriber," but it was pointed out that such an alteration would be illegal if it were adopted without the consent of the whole of the members. After a good deal of discussion it was finally decided that a proposed alteration to the rules should be made, whereby 5s. 0d. subscriptions were increased to 7s. 6d., and £3 3s. 0d. subscriptions to £5 5s. 0d. It was agreed that this proposal should be circulated to all members so that it could be put into operation at the next Annual General Meeting.

A proposal was then made by Dr. Turrill that life membership should be dropped. This was seconded by Mr. Ballard and it was suggested that this proposal should be circulated to the members. Mr. Barnett stated that he was in favour of increasing subscriptions, but he felt that all old Kewites would be penalised by dropping the life membership. This was supported by Mr. Prockter. Mr. Ballard suggested that the word "suspended" might be a more fitting one to use. A good deal of discussion ensued regarding the advisability of discontinuing life membership, and it was finally proposed that subscriptions should be increased as previously suggested, 5s. 0d. to 7s. 6d. and £3 3s. 0d. to £5 5s. 0d. and that Dr. Turrill's recommendations be circulated to members before the next Annual General Meeting.

With regard to cutting down the expenses from the printing point of view, Mr. Pearce said that he had been to the printers

and discussed to whole matter with them, and he put the following points to the meeting:—

1. Instead of the *Journal* being hand-sewn, as at present, it should be fixed with clips in the same manner as the *R.H.S. Journal*. This would constitute quite a considerable saving.

2. Photographs.—A full page photograph of the President only, and photographs of deceased members should appear as insets on the page of the script.

3. Directory—This should be published every five years and in other years only alterations. Names should not be published unless full addresses are available.

4. Articles—The two articles appearing in this year's *Journal* were published on the instructions of the Committee.

5. Advertisements—Many firms are not interested in advertising in a *Journal* such as ours which is only published annually. Two advertisements which had been promised, were withdrawn.

Mr. Pearce concluded by saying that if all these points were considered and put into effect he felt that the expense of producing the *Journal* could be cut down a good deal.

The question of a photograph of the scientific staff being published in the *Journal*, was again brought up and it was agreed that this should be considered when the next *Journal* was prepared.

The points put forward by Mr. Pearce were actively discussed, and it was finally agreed to leave the matter in the hands of the Committee.

Regarding the War Memorial, Mr. Campbell explained that about three weeks would elapse before we could hope for delivery of the Memorial Plaque which was being prepared, and then there would be some alterations necessary at the existing Memorial. He then put it to the meeting to decide whether they felt that Armistice Sunday would be a good day for the unveiling ceremony, and if this should be conducted in public or in private before the Gardens opened. It was proposed and seconded that Armistice Sunday would be a suitable day and Mr. Campbell suggested that Sir Edward be asked to perform the unveiling ceremony which would take place before the Gardens were open to the public.

Mr. Campbell said that he had been asked to place before the meeting the feeling expressed by many that men leaving Kew to-day are experiencing difficulty because a certificate from Kew does not convey as much as a diploma from a Farm Institute. As Edinburgh now have a diploma, it was suggested that an

approach be made to the Director for an alteration to the Students' course to a three-year period, like Edinburgh, which would then receive a diploma. Mr. Barnett (New Zealand) said he believed that this feeling prevailed particularly overseas, where a diploma counted for a good deal, but a certificate did not. He recommended that the authorities at Kew should investigate the position thoroughly, and this was seconded by Mr. Prockter.

The point was raised by Mr. Stock once more, that branches of the Kew Guild should be set up in different parts of the country.

In closing, the President welcomed all Kewites from overseas, particularly Mr. Barnett of New Zealand and Mr. Baker of South Africa, and read the apologies for absences.

The meeting concluded at 4.30 p.m., when the members adjourned to the Director's office lawn for tea and an opportunity of meeting their friends.

ANNUAL DINNER, 1951

The Annual Dinner was held on Wednesday, 23rd May, at The Windsor Castle, Victoria, London, S.W.1, when over 150 people were present.

After a very excellent dinner, the President (Mr. George H. Pring, of the Missouri Botanic Gardens, St. Louis, U.S.A.) proposed the toast to the health of His Majesty the King. Mr. A. J. Brooks then rose to propose a toast to the President, pointing out that Mr. Pring's election was unique in that he was the first American citizen ever to be elected as President of the Guild. It could be claimed, however, that as he entered the service of the Gardens as a boy and remained to become a Student, he was, therefore, 100% Kew trained.

Since leaving and taking up an appointment in America, Mr. Pring had done extremely good work. He had held a series of important positions, had been connected with many Societies and had received numerous awards, particularly for the raising of water lilies, in which plants he was very keenly interested. Mr. Brooks stated that Kew men abroad were held in very high regard, but with the increased competition to-day it was very necessary that any young men going abroad should fit themselves properly for the positions to which they aspired. In closing, Mr. Brooks pointed out that Mr. Pring had proved a very fine example to all Kewites, and it was with very much pleasure that he proposed the toast to the President.

The President, in replying, said that he brought the felicitations from the members of the Kew Guild in America. Both he and Mrs. Pring had travelled over 5,000 miles to come, and in

presiding that evening, he was greatly moved by the honour bestowed upon him. In the past, the President pointed out, many graduates from Kew had held important positions in America and in the Colonies. They had upheld the very fine traditions of Kew to the outside world and had proved worthy of the confidence placed in them.

Continuing, the President recorded that his own charge, The Missouri Botanic Gardens in St. Louis, was only formed after the creator, Mr. John Henry Shaw, had visited Kew and had been greatly impressed by all that he had seen there. The collections in the early days were very small, but to-day their orchid collection alone numbered over 50,000 flowering plants. In closing, the President spoke of the very deep concern which all Kewites felt for the Old Country during the years of war, during which time many of their sons had served either in England or across the sea. During that period of anxiety he said there were two songs which always brought him very close to home. They were "The White Cliffs of Dover" and "There'll always be an England."

The toast of "The Kew Guild" was then proposed by the President, who called attention to the fact that there were present a number of visiting Kewites as well as visitors from overseas. As is the custom in America, he called upon each one to stand so that the assembled company might see them, and amongst those present were Dr. Donald Wyman of the Arnold Arboretum, Mr. R. A. Paton, Nigeria, W. Africa, Mr. and Mrs. C. Snow, Auckland, New Zealand, Major G. G. Cook and Mr. John Helm of the Imperial War Graves Commission, France, Mr. Lodovico Ronco, Bordighera, Italy, and Mr. J. J. Aves, Deputy Superintendent of Parks, Pretoria, South Africa. After speaking of the work of the Guild and its members, the President read a letter of good wishes from Mr. F. G. Flippance, who was unable to be present.

Responding to the toast of "The Kew Guild," Mr. P. W. H. Conn, General Superintendent of Parks, Liverpool, thanked the President for his presentation of the toast, and said it was gratifying to learn of the very high regard in which Kewites were held in America. He felt that many of the positions overseas would not be so readily available to Kewites in the future and he thought it essential that young Kew men should learn as much as possible about the botanical aspect of horticulture in order to keep a very high standard in this country. He also hoped that there would be a revival of the old noted botanic gardens which did so much good work in the past and could now take the place of many of the large private estates which were rapidly becoming fewer and fewer.

The toast of "The Visitors" was then proposed by Mr. R. C. McMillan, Director of Parks, Manchester, whose humour gave pleasure to the whole of the company. He referred to the

presence of Mr. A. P. Balfour of Messrs. Suttons, Mr. Roy Hay of the *Gardeners' Chronicle*, Mr. D. Wilkie of Edinburgh, Dr. Wyman of the Arnold Arboretum, Mr. and Mrs. F. C. Pring (brother and sister-in-law of the President), Alderman P. H. Keene (Deputy Mayor of Richmond) and Mrs. Keene, and Mr. and Mrs. R. Trickett (friends of the President). Mr. McMillan warmly welcomed the guests and said how delighted the members of the Guild were to have them present.

Replying for the guests, Mr. A. P. Balfour said that he was sure they had all spent a most enjoyable evening. He regretted very much that he had not been trained at Kew and could not, therefore, claim to be an old Kewite, but he always enjoyed immensely his periodical visits there and the courtesy and kindness which he received from members of the staff. He referred to the fact that the President's own sons came over to this country to serve in the war and this was one thing of which we were justly proud. He expressed the thanks of all the guests for the great kindness extended to them.

Dr. Donald Wyman, who had been at Harvard University for 15-20 years, said that the evening's proceedings had been quite an education to him and he had thoroughly enjoyed them. Since his arrival in Great Britain he had travelled many miles, from St. Ives in Cornwall to the top-most part of Scotland, and everywhere he found that the British people had a great love of plants and they love them for what they are. He referred to the Chelsea Flower Show and said how pleased he was of having the opportunity of paying a visit there. He had seen many things which could not be produced in America, and the whole Show was staged differently, the standard of plant cultivation being far in advance of anything he had seen previously. His final compliment in his own words—"As a nation you have something to be proud of and we in America have a great deal in Horticulture that we can learn from you."

The presentation of prizes then took place—these being presented by the President to the following winners:—

- Mr. G. T. Naylor—1st Prize, Collection British Flora.
- Mr. H. C. P. Rattenbury—2nd Prize, Collection British Flora.
- Mr. B. R. Savage—3rd Prize, Collection British Flora.
- Mr. G. S. C. Scott—Dummer Memorial Prize.
- Mr. G. M. Fuller—C. P. Raffill Prize.
- Mr. D. A. G. Jones—Mutual Improvement Society's Prize.

The two silver cups for Tennis were awarded to Miss Anne Buller, winner of the Ladies' Singles, and to Mr. G. S. G. Scott, winner of the Men's Singles.

A very enjoyable "get together" then took place, and continued until the party dispersed at 11 p.m.

KEW GUILD ANNUAL REPORT

The Committee have pleasure in submitting the Annual Report for 1950/51.

ANNUAL GENERAL MEETING.

The Annual General Meeting was held in the Lecture Room at Kew on Saturday, August 26th, 1950, with the President, Mr. F. G. Preston, in the Chair, and over 70 members present. The meeting was followed by a tea, held on the lawn of the Director's Office Garden, and the weather being fine, a most enjoyable time was spent by the 140 members and guests present.

PRESIDENT ELECT.

The Committee have pleasure in recommending the election of Mr. Herman Spooner as President for the ensuing year.

COMMITTEE.

Members of the Committee who are due to retire this year are: Messrs. J. E. S. Souster, H. Spooner, R. H. Rumsey (Australia), A. Osborn and E. W. Coward. Proposed nominations to fill the vacancies are as follows and are submitted for approval: Messrs. G. H. Preston, F. S. Sillitoe, N. Lothian (Australia), E. H. James and W. Nelmes. A representative for the Student Gardeners has still to be nominated.

OFFICERS.

Mr. L. Stenning, who has so ably carried out the duties of Hon. Treasurer for many years, has agreed to continue for another year. Messrs. W. M. Campbell and S. A. Pearce also agree to continue as Joint Hon. Secretaries and Editors of the JOURNAL. Messrs. E. W. Coward and J. E. S. Souster are recommended as Hon. Auditors for the ensuing year.

PROUDLOCK TENNIS COMPETITION, 1950.

Thirteen entries were received for the Men's Singles, the Final being won by Mr. G. S. Scott. Eleven entries were received for the Ladies' Singles, and the Final, for the third year in succession, was between Mrs. Milne-Redhead and Miss Ann Buller. After a very good match Miss Buller was again the winner.

JOURNAL.

The 1950 issue was published in July and copies have been posted to members. Difficulties with advertising and printing continue to be a problem and a reluctance on the part of members to contribute notes and articles of general interest is not conducive to early publication. Cost of the current issue is

higher than before, and certain alterations and modifications will be necessary to enable the next JOURNAL to be published. Members are requested to notify the Editors of changes of address and items of interest will be appreciated.

ANNUAL DINNER.

The function held at the "Windsor Castle," Victoria, on May 25th last, proved most enjoyable and successful. The change of venue, and also the decision to hold the Dinner on the first day of Chelsea instead of the second day as in past years, met with the general approval of all present.

SUBSCRIPTIONS.

An increase in subscriptions is recommended to meet additional costs of the JOURNAL and other Guild expenses. It is proposed that the annual subscription be increased from 5/- to 7/6 and life subscriptions from £3 3s. 0d. to £5 5s. 0d.

RULES.

A written proposal for an alteration to the rules has been presented by Mr. Milne-Redhead, and the Committee have placed the matter on the Agenda for a decision by the A.G.M.

WAR MEMORIAL.

Owing to a limiting order on the thickness of bronze plate for war memorial plaques, some delay was experienced by the contractors. Delivery will not take place until late in September when, should the members agree, the unveiling could be held on Armistice Sunday.

OBITUARY.

Since going to press of the 1950 JOURNAL we regret to record the deaths of: F. M. Rogers, O.B.E., A.H.R.H.S., Mrs. Winton (née Robshaw), F. G. Dalgarno and Charles Howlett.

GEORGE H. PRING, *President.*

KEW GUILD JUBILEE PERMANENT SECURITY FUND

DONATIONS FOR 1951

		£	s.	d.
Balance from 1950 account	...	459	11	8
In memory of A. B. Culham (W. H. Patterson)	...	3	0	0
A. J. Brooks	3rd Donation	1	1	0
E. J. Thomas	...	1	0	0
C. S. Walsh	4th Donation		5	0
H. Spooner	3rd Donation		5	0
G. Lamb	...	2	10	0
F. S. Sillitoe	3rd Donation		5	0
J. McCarton	...		5	0
J. E. Stone	...		5	0
E. Brown	3rd Donation	1	0	0
J. D. Snowden	2nd Donation		10	0
W. D. Sayers	4th Donation		5	0
F. J. Ford	3rd Donation		5	0
F. Senogles	...		5	0
W. B. Pritchard	2nd Donation		10	6
T. Garwood	4th Donation		2	6
G. B. Brown	3rd Donation		10	0
B. B. Wass	3rd Donation		5	0
N. Waumsley	...		5	0
A. H. Pettigrew	...		2	6
J. R. Hibbert	...		5	0
Miss J. Haskell	...		2	6
J. E. Leslie	2nd Donation		10	0
C. W. Rudd	3rd Donation		5	0
J. E. Harris	2nd Donation	1	0	0
N. J. Prockter	4th Donation		5	0
Murdo McNeill	2nd Donation		5	0
G. Hyland	...		10	6
T. Jackson	...		5	0
J. Middleton	3rd Donation		5	0
J. J. Aves	...		5	0
E. Chantler	...		5	0
T. R. Clark	3rd Donation		5	0
A. Woodward	3rd Donation		2	6
G. S. Joy	4th Donation		2	6
W. Bury	...		5	0
E. C. Hubbard	3rd Donation		10	0
C. Snow	...		10	0
E. A. Braybon	5th Donation		10	6
James Lambert	...	4	0	0
J. Heppell	2nd Donation		10	0
J. Offley	...		3	10
C. Jones	3rd Donation		2	0
M. J. Barnett	...		2	2
In memory of the late C. P. Raffill from a fellow worker	...	3	0	0
		£ 493	18	8

CAPITAL ACCOUNT

LIABILITIES		ASSETS	
	£ s. d.		£ s. d.
170 Life Subscribers @		£ 300 3 per cent. New	
£ 1 @ ½ rate	85 0 0	South Wales Stock @	
239 Life Subscribers @		par	300 0 0
£ 2 @ ½ rate	239 0 0	£ 26 6s. 3d. 3½ per	
118 Life Subscribers @		cent. War Stock @	
£ 3 3s. 0d.	371 14 0	par	26 6 3
Loan from Jubilee Per-		£ 500 3 per cent. War	
manent Security Fund,		Savings—Sir A. W.	
1950	31 13 3	Hill's bequest @ par .	500 0 0
Loan from Jubilee Per-		£ 220 2½ per cent.	
manent Security Fund,		Savings Bank—W. H.	
1951	107 6 5	Judd's bequest @ par .	220 0 0
Assets exceed Liabilities	316 17 7	Valuation of Journals in	
		Stock	100 15 0
		Valuation of Typewriter .	4 10 0
	<u>£ 1,151 11 3</u>		<u>£ 1,151 11 3</u>

WATSON MEMORIAL EDUCATIONAL FUND

RECEIPTS	£ s. d.	PAYMENTS	£ s. d.
Balance from 1950 account	125 6 7	Nil	
Dividends on £ 100 3½		Balance in the Post Office	
per cent. War Stock .	3 10 0	Savings Bank	131 19 9
Interest on Post Office			
Savings Bank	3 3 2		
	<u>£ 131 19 9</u>		<u>£ 131 19 9</u>
(Assets £ 100 3½ per cent. War Stock			
@ par and Balance in Bank £ 131			
19s. 9d. Liabilities, Nil.)			

DRUMMER MEMORIAL PRIZE FUND

RECEIPTS	£ s. d.	PAYMENTS	£ s. d.
Balance from 1950 account	41 14 8	Prize awarded to G. F.	
Dividends on £ 70 4 per		Naylor	2 2 0
cent. Funding Loan ...	2 16 0	Balance in Post Office	
Interest on Post Office		Savings Bank	43 10 9
Savings Bank	1 2 1		
	<u>£ 45 12 9</u>		<u>£ 45 12 9</u>
(Assets £ 70 4 per cent. Funding			
Loan @ par and Balance in Bank			
£ 43 10s. 9d. Liabilities, Nil.)			

MATILDA SMITH PRIZE FUND

RECEIPTS		PAYMENTS	
	£ s. d.		£ s. d.
Balance from 1950 account	29 12 9	Nil	
Dividends on £50 3 per cent. Savings Bonds ...	1 10 0	Balance in Post Office	
Interest on Post Office Savings Bank ...	15 1	Savings Bank ...	31 17 10
	<u>£ 31 17 10</u>		<u>£ 31 17 10</u>
(Assets £50 3 per cent. Savings @ par and Balance in Bank £31 17s. 10d. Liabilities, Nil.)			

THE BENEVOLENT FUND

RECEIPTS		PAYMENTS	
	£ s. d.		£ s. d.
Balance from 1950 account	152 11 11	Donation to—	
Subscriptions ...	5 0	Gardeners' Orphan	
Interest on Post Office Savings Bank ...	3 15 1	Fund	1 1 0
	<u>£ 156 12 0</u>	R. E. Mason ...	10 0 0
		J. Clark ...	10 0 0
		Balance in Post Office	
		Savings Bank ...	135 11 0
			<u>£ 156 12 0</u>

THE PROUDLOCK PRIZE FUND

RECEIPTS		PAYMENTS	
	£ s. d.		£ s. d.
Balance from 1950 account	12 12 2	Engraving Tennis Cups	1 4 0
Dividends on £25 4 per cent. Funding Loan ...	1 0 0	Prize awarded to H. C. P. Rattenbury ...	1 1 0
Interest on Post Office Savings Bank ...	5 6	Insurance Premium on Tennis Cups ...	7 6
	<u>£ 13 17 8</u>	Balance in Post Office	
		Savings Bank ...	11 5 2
			<u>£ 13 17 8</u>
(Assets £25 4 per cent. Funding Loan @ par and Balance in Bank £11 5s. 2d. Liabilities, Nil.)			

 KEW GUILD DINNER ACCOUNT—MAY, 1951

RECEIPTS			PAYMENTS		
	£	s. d.		£	s. d.
Sale of Tickets—			Castle Catering Co., Ltd.		
118 @ 15s. each ...	88	10 0	153 Dinners @ 12s. 6d.	95	12 6
27 @ 12s. 6d. each .	16	17 0	Toast Master ...	1	1 0
6 Guests ...	—	— —	Commissionaire ...	1	1 0
2 Complimentary			Printing Dinner notices		
tickets ...	—	— —	and envelopes ...	2	7 7
Donation ...	1	14 6	Printing Dinner tickets .	1	11 3
			Printing 250 Menu cards	5	2 6
			Refreshments for Com-		
			missionaire ...	5	8
	£	107 1 6		£	107 1 6

 KEW GUILD TEA ACCOUNT—AUGUST, 1951

RECEIPTS			PAYMENTS		
	£	s. d.		£	s. d.
116 tickets @ 3s. 6d. each	20	6 0	Messrs. John Gardner		
Donations ...	1	7 6	Ltd.: 120 Teas @ 2s.		
2 Guests ...	—	— —	6d. each ...	15	0 0
2 Commissionaires ...	—	— —	Hire of Marquee ...	14	18 0
Deficit ...	8	4 6			
	£	29 18 0		£	29 18 0

 KEW GUILD WAR MEMORIAL FUND

RECEIPTS			PAYMENTS		
	£	s. d.		£	s. d.
191 Donations ...	167	4 0	Bronze Memorial Plaque	60	10 0
			Printing Fund Notices,		
			etc. ...	6	12 9
			3 Receipt Books @ 1s.		
			3d. each ...	3	9
			8 packets envelopes @		
			6d. each ...	4	0
			Postages overseas ...	3	15 9
			Poppies for Memorial ...	10	0
			Balance in Bank ...	95	7 9
	£	167 4 0		£	167 4 0

The above accounts have been checked, compared with supporting vouchers, bank books, etc., and found to be correct.

Signed,

E. F. COWARD }
 J. SOUSTER } *Hon. Auditors.*

BRITISH BOTANY CLUB—1951

The Annual General Meeting was held on 6th April, with the President, Mr. Ballard, in the Chair. Mr. B. R. Savage, who has done so much for the Club, was re-elected Joint Honorary Secretary with Mr. E. W. Curtis, and Messrs. J. Souster, F. Brown and H. H. Parker were elected to the Committee. The presence of the Assistant Director, Dr. Bor, was most welcome and he supplemented the President's remarks.

Keen interest was taken in the eleven outings held during the Season. The "Annual Outing" this year was held in July. The party first went to Cambridge Botanic Garden, where we were met by the Director, Mr. Gilmour, and the Curator, Mr. Younger, who both very kindly showed us round the Gardens. After lunch on the Director's lawn, we were joined by Mr. Max Walters, Curator of the Cambridge Herbarium, who conducted us round Wicken Fen. This trip proved of great Ecological interest, in addition to introducing members to a most interesting flora, and we were most fortunate in having such an informative guide. Two other noteworthy trips were to the Hitchin area with its fine chalk flora, lead by Mr. E. W. Milne Redhead, and to the Isle of Grain, with Mr. Milne Redhead and Mr. C. E. Hubbard as leaders.

Mr. Hubbard again lead the "Annual Grass Trip" to Queen's Cottage Grounds, where 30 species were seen, and on the following evening he very kindly gave a talk on the identification of grasses and their uses in Horticulture.

An innovation this year was the holding of informal talks in the Iron Room during the Winter. Our President, Mr. Ballard, gave a talk on "British Ferns," and Dr. Turrill spoke on "British Woodlands." We were also fortunate in having Dr. Ramsbottom to give us a talk on "British Fungi," which was amply illustrated by some magnificent slides, as well as sixty live specimens collected by Mr. F. Brown and Mr. J. O'Byrne.

Continued progress has been made with the Club Herbarium which has been further enlarged and is now of steadily increasing value and usefulness.

Messrs. Bett, Littlewood and Curtis submitted collections for the competition this year, the Judges awarding the Dummer Memorial Prize to Mr. E. W. Curtis and the Proudlock Jubilee Prize to Mr. G. Littlewood. Fortunately the very small number of collections submitted is no index of the interest taken by the Students in British Flora and the help so generously given by members of the Herbarium Staff and others has been of the greatest assistance in helping the Kew Student to become familiar with British plants and their Ecology.

MUTUAL IMPROVEMENT SOCIETY

The Annual General Meeting was held in the Iron Room on Monday, September 11th, 1950, with Mr. Stenning in the Chair.

The Secretary's report was approved and signed, and the Election of Officers for the 1950-51 Session were as follows:

Chairman	Mr. L. Stenning
Vice-Chairman	Mr. J. Souster
Hon. Secretary	Mr. G. S. B. Scott
Hon. Assistant Secretary	Mr. B. R. Savage
Committee Members	Mr. R. S. Davies Mr. K. Evans Mr. I. D. Galloway

The following syllabus of Lectures was drawn up:

1950	
Oct. 2.	The Cultivation of Begonias Mr. L. Stenning
.. 9.	*Carnivorous Plants Dr. W. B. Turrill
.. 16.	Some British Insects Mr. G. S. G. Scott
.. 23.	The Asymbiotic Germination of Orchids Mr. G. M. Fuller
.. 30.	The Propagation of Bedding and Decorative Plants Mr. L. A. Kynnersley
Nov. 6.	A Short Account of the Cultivation of the Hop Mr. D. A. G. Jones
.. 13.	The Commercial Cultivation of Mushroom-rooms Mr. J. R. Bett
.. 20.	Tree Surgery Mr. I. D. Galloway
.. 27.	*Woodland Vegetation Sir E. J. Salisbury
Dec. 4.	Celery Cultivation Mr. I. C. Hamblin
.. 11.	*The Climate and Vegetation of Western Australia Mr. J. E. S. Souster
.. 18.	The Propagation of Herbaceous Plants Mr. D. D. McLachlan
*Lantern Lecture.	
1951	
Jan. 1.	Rock Garden Construction Mr. J. Brown
.. 15.	Colour Films of Sussex Gardens, Roses and Wild Flowers Mr. A. B. Johnston
.. 22.	British Forestry Mr. N. Taylor
.. 29.	The Delivery of a Horticultural Lecture Mr. W. N. Gilmour
Feb. 5.	Water Garden Construction and Maintenance Mr. H. C. P. Rattenbury
.. 12.	A Debate with the Lindley Society of the Royal Horticultural Society's Gardens, Wisley.
.. 19.	Plant Protection Films: Pests and Diseases of Glasshouse Crops, and Some Problems of Lawn and Sport Ground Management Miss B. M. Young
.. 26.	Commercial Black Currant Production Mr. V. Brooks

Mar.	5.	Some Economic Plants of The Malay Peninsula	Mr. N. V. Lange
„	12.	Films on Life-Cycles of some Insects, etc.	Shell Chemicals
„	19.	Commercial Rose Cultivation under Glass	Mr. H. R. Dally
„	9.	The Practice and Principles of Fruit Tree Ringing	Mr. J. A. Egerton
Apl.	2.	The Reclamation of an Old Estate	Mr. H. H. Parker

In addition to the above, the following four lectures were given:—

Two films, entitled “From Capetown to Cornwall” and “From Cornwall to Shrewsbury,” shown by Mr. Hardman, Superintendent of Parks in Bulawayo, Southern Rhodesia.

“A Botanist in Ceylon,” by Mr. F. Ballard.

A talk on the Arnold Arboretum by Dr. Wyman, and

“Tropical Water Lilies,” by Mr. G. H. Pring of the Missouri Botanic Garden and President of the Kew Guild, 1950/51.

The last three lectures were illustrated with some excellent coloured lantern slides.

The attendances throughout the session were good and showed a marked improvement on the previous session. The total attendance for the 25 meetings being 714 with an average weekly attendance of 28.

PRIZES.

The Hooker Prize was awarded to Mr. G. S. G. Scott; the C. P. Raffill Prize for the best lecture of the year was won by Mr. G. M. Fuller; and the Society's Prize was awarded to Mr. D. A. G. Jones.

TRIPS.

Members visited the following places of Horticultural Interest during 1951:—

March 18.—Messrs. Sanders' Royal Orchid Nurseries, St. Albans, Herts.

June 24th.—L. R. Russell Ltd., Richmond Nurseries, Windlesham, Surrey.

July 12th.—Hampton Court, Middlesex.

August 23rd.—Messrs. Chase's Nurseries, The Grange, Chertsey, Surrey.

G. S. G. SCOTT, *Hon. Secretary.*

THE RUNNING CLUB, 1951

After a lapse of twelve years the Running Club was reformed in 1951, and a number of the annual events resuscitated, including the Clog and Apron Race, and the Inter-Departmental Challenge Race, both events being held in the Gardens after the Gardens were closed.

A new event was the relay race between teams representing Kew and Wisley. The race, which it is hoped will become an annual event, was over a seventeen miles course from Kew to Wisley.

Reports of the events are as follows : —

CLOG AND APRON RACE.

The Clog and Apron Race was again held this year after a long interval, as the last race was run in 1939. The race was held in fine weather on Friday, May 25th, and the number of runners was so large that the field had to be divided into two heats. The first heat was run in the time of 59 seconds, being won by Mr. P. Nutt, whilst the second heat, which like the first consisted of thirteen runners, was won by Mr. G. Fuller. The first four from each heat lined up for the final, and in this a very exciting race resulted. The ultimate winner, Mr. Nutt, went into the lead very early, and despite all the efforts of the other runners, continued to gain until he ran home an easy winner in a remarkable time of 49 seconds. Having regard to the fact that the course from the Circle in the Broad Walk to No. 3 Museum, measured 375 yards, and in view of the handicap of clogs and apron, the time is one which will be very difficult to beat in any future race.

The race attracted a good number of spectators and the prizes, consisting of liquid refreshment, were presented by Mrs. Milne-Redhead.

ANNUAL INTER-DEPARTMENTAL RACE.

This was run during the evening September 27th, over a 2½ miles course around the Gardens, for the Challenge Cup presented before the War by Mr. J. S. L. Gilmour, former Assistant Director at Kew.

In spite of a very wet evening, sixteen competitors representing eight departments, lined up for the start, the race being started by the Assistant Director (Dr. Bor) and timed by the Curator (Mr. Campbell).

After a very good race, in which all competitors finished the course, the results were as follows:—

Department	Runners	Position in Race	Points Gained	Team Points Total	Team Position
Decorative	P. Huggett	1	16)	31	1st
	P. Nutt	2	15)		
Tropical	G. Fuller	4	13)	23	2nd
	G. Weighill	7	10)		
Temp. House	L. Carn	5	12)	21	3rd
	P. Bridgeman	8	9)		
T. Range	G. Collins	3	14)	20	4th
	J. R. Bett	11	6)		
Arboretum	J. Mullins	6	11)	13	5th
	B. Ward	15	2)		
Alpine	G. Scott	10	7)	12	6th
	H. Taylor	12	5)		
Herbarium	R. Drummond	9	8)	11	7th
	B. De Winter	14	3)		
Office	D. Bridger	13	4)	5	8th
	R. Claiden	16	1)		

Winners—Decorative Department.

Times—

Winner	P. Huggett	12 min. 30 sec.
Second	P. Nutt	13 min. 3 sec.
Third	G. Collins	13 min. 17 sec.
Fourth	G. Fuller	13 min. 40 sec.

RELAY RACE—KEW VERSUS WISLEY

This race, which it is hoped will become an annual event between teams from the two Gardens, was run on Sunday, June 3rd, 1951, over a course of approximately seventeen miles from Kew to Wisley, and followed, for the most part, the main roads. The race, between four picked runners on each side, was divided into four stages, *i.e.*, first two runners starting from the Curator's Gate, Kew Road, ran to the Drinking Fountain, Ham Common; the second pair carried on to Grigs Hill Common; the third pair to Fairmile, Chobham; and the last pair on to the finishing line in the Seven Acre Garden, Wisley.

The day was hot and with road traffic and petrol fumes to contend with, the race proved a punishing one. Both teams ran well, especially the Kew team, who put up a fine performance, after establishing a good lead on the first stage, and which was increased in the second and third stages. Only in the final stage did Wisley pull up and Mr. R. Hill, for Wisley, made a wonderful effort in cutting down by three minutes the formidable lead held by Kew.

The course (17 miles) was run by the winning Kew team in the excellent time of 1 hour, 38 minutes 20 seconds, with the Wisley team taking 1 hour 46 minutes 45 seconds.

Individual times were: First stage (3¾ miles), P. Huggett (Kew) 19.4 mins., P. Russell (Wisley) 24 mins. Second stage (4 miles), L. Carn (Kew) 25.2 mins., D. Bernard (Wisley) 29.5

mins. Third stage (4 miles), P. Nutt (Kew) 23.5 mins., W. Sykes (Wisley) 26 mins. Fourth stage (5 miles) G. Fuller (Kew) 30.25 mins., R. Hill (Wisley) 27.3 mins.

The Course :—

Curator's Gate, Kew, then down Kew Road,
 —Kew Gardens Road (opp. Cumberland Gate), Sandycombe Road,
 —Manor Road (over level crossing),
 —Queens Road—"Star and Garter" Hill on to Petersham Road,
 —Ham Common

1. DRINKING FOUNTAIN (Church Road), HAM COMMON (right hand side).

Along Richmond Road to Hawker Factory—
 —bear RIGHT down Lower Ham Road—Wood Street, Kingston—
 —to left of Church—across Market Place—
 —down Portsmouth Road to Gigg's Hill Common.

2. CENOTAPH, GIGG'S HILL COMMON.

Portsmouth Road

3. POLICE BOX, FAIRMILE (north side of Fairmile House)

Portsmouth Road—Wisley Lane, past main gates to Field Gate, first left in Pinetum, thence to Seven Acres Lake to finish.

4. END AT EXTREMITY OF SEVEN ACRES.

G. FULLER, *Hon. Secretary.*

THE CRICKET CLUB, 1951

The 1951 Season proved very successful, in spite of inclement weather and the fact that only fourteen of the twenty matches arranged could be played, there being two cancellations and four games abandoned.

It was most unfortunate that the annual match, Old Kewites versus Present Kewites, could not be played this year, due to the Old Kewites being unable to raise a team. It is hoped that the same situation will not arise in 1952.

Noteworthy among the games arranged were the two matches against the Cambridge Botanic Garden. The first played on Kew Green resulted in a win for Kew by 16 runs, scores being Kew 113 and Cambridge 97. The return game at Cambridge, played on the Trinity College ground, resulted in a convincing win for Cambridge by 65 runs. Scores: Cambridge 137, Kew 72.

The match against the R.H.S. Gardens at Wisley proved enjoyable and most exciting, for Kew, batting first, lost five wickets for 13 runs, but a magnificent partnership by A. Carson and K. Evans resulted in Kew finally making their highest score

of the year—124, of which Carson made 72 and Evans 29. The batting of the Wisley side was also good, and they made the useful total of 92 before being dismissed and the match was a noteworthy win for Kew.

Another close result was at Reading, against Sutton C.C. (2nd XI), where Kew were winners by nine runs. Scores: Kew 89 and Suttons (2nd XI) 80.

Perhaps the best feat of the season proved to be against Ilford Parks C.C., at Ilford, where Kew won by 52 runs. Scores: Kew 89, Ilford 37. This was Ilford's first home defeat of the season and sweet revenge for Kew for their previous defeats at Ilford.

The Club's appreciation and thanks are due to Dr. Bor, Mr. Campbell, Mr. Stenning and Mr. Nelmes for their support and co-operation, also to the Captain (G. S. G. Scott) and Vice-Captain (K. Evans) for their leadership and handling of the games.

W. B. WARD, *Hon. Secretary.*

THE FOOTBALL CLUB

Recollections of the 1951/52 Season will remain with club members for a long time, for it proved to be the most successful season for thirteen years.

An impressive fixture list of 22 matches was arranged and of these nineteen were played and three unavoidably cancelled. Of the games played, eleven were won, five drawn and three lost. Leading goal scorers were K. Evans (16), S. Koyle (7) and J. Weathers (6).

As in the past, good games resulted from the fixtures with the R.H.S. Gardens, Wisley, and in the first game of the season, played at Wisley, the result was a draw, the second game at Kew also ended with the same result, and in consequence a third game was arranged. In this match Kew were the winners by eight goals to one, and incidentally this was one of the outstanding wins of the season. It was also the first victory for Kew against Wisley for 13 years.

For the most part, the weather for the games was good, but the match against Mill Hill was played in blinding hail storms, but was nevertheless a good game, and was followed by tea in the Pavilion.

As previously mentioned, three games had to be cancelled, two of them because of the waterlogged condition of our opponents' ground, the other because of a rearranged League

fixture of our opponents. Among the games played, eight were against League clubs.

It is of interest to record that we were able to field a team each week because of the keenness and enthusiasm of players, and also to those non-players who were willing to "do duty" in order for a player to be free.

The majority of the players of the 1951/52 season will have left Kew before the 1952/53 season commences, but it is hoped that whole-hearted support will be available to ensure another successful season. It is also hoped that more vocal support from Kewites on the touchline will be forthcoming, for the days of paper hats and musical accompaniments to "cheer on" the team, enjoyed long ago in the 1920's is still but a memory.

G. C. WEIGHILL, *Hon. Secretary.*

THE HOCKEY CLUB, 1951

The decision to form a Hockey Section to the Sports Club arose from a challenge issued by the students at the R.H.S. Gardens, Wisley. This occurred following the annual debate (Kew versus Wisley) in February, 1951, at the Mutual Improvement Society. Although not knowing if a hockey team could be mustered at Kew, the challenge was accepted and two fixtures arranged, both games to be played in the Old Deer Park, at Richmond. With enthusiastic support from a number of the younger female staff of the Herbarium and also the Jodrell Laboratory, a mixed team was fielded, but with no previous experience of each other's play, Kew were beaten in the first match by 6 goals to 1. Incidentally, the Wisley team consisted of all men! In the return game two weeks later, the result was reversed, Kew winning by 5 goals to 3.

With honours even on the results of the two games, enthusiasm for a Hockey team at Kew increased, and it was decided to arrange a number of fixtures for the following season. In order that there should be no clashing with the football team, the games were arranged for Sunday afternoons, with "Home" matches to be played in Marble Hill Park, Twickenham. With thirteen male and seven female members, the Hockey Club was duly recognised as a section of the Royal Botanic Gardens, Kew, Sports Club and financial support given. C. Duncan was elected Captain, and John Bett as Vice-Captain and Secretary.

Seventeen fixtures were arranged and included matches with The British Broadcasting Corporation, The Milk Marketing Board, Distillers Company Ltd. and Rothampstead Experimental Station. The season did not open very favourably for Kew, and

the first two games were lost, the first game to the Milk Marketing Board by 7 goals to 2, and the second game against the British Broadcasting Corporation by 6 goals to nil. However, after these reverses, the team settled down and the final results for the season were: Played 10 matches, Won 2, Drew 2 and Lost 6.

Although not a successful season, the games played were greatly enjoyed, and it is hoped that with sufficient support, a more successful season will be enjoyed during 1952/53.

JOHN BETT, *Hon. Secretary.*

KEW METEOROLOGICAL NOTES, 1951

The weather of 1951 in south-east England was remarkably similar to that of 1950. In each year, but especially in 1951, the rainfall was well above the average, in each the later part of the summer, with September, was disappointingly wet and cool, and there were two dry Octobers and wet Novembers. In spite of this excess of rain, both years gave us more than the average amount of sunshine! Much of the rainfall of 1951 occurred in the early part of the year, the eleven inches which fell during the period January to March, breaking the previous record at Kew Observatory. It was the coldest spring for some years, the continuous rain, often from the north-west, keeping the mean temperature low, for hard frosty spells were almost entirely absent.

There was no feature worthy of mention during the rather wet January, but February's rainfall, about five inches, was the most ever recorded for that month at Kew, and, as mentioned above, it went on being rainy and cold through most of the three spring months.

June was warm and sunny for the third year in succession, but there was no real heat wave. July, too, was moderately warm, with more than the normal sunshine, the 28th with 85° F. being the warmest day of the year in London. Then, in August, came the change to cool and rainy weather, the rainfall being 50 per cent. over the average. August Bank Holiday was the wettest day of the month in London.

September was dull and rather wet, but October's rainfall was only about a third of the average. The rain returned in November, there being only one wetter November at Kew during the past century. As often happens during the "winter half" of the year, this unsettled type of weather was accompanied by more than average sunshine and an absence of thick fogs.

The year ended with a rather mild December, in striking contrast to the very cold December of 1950.

E. NELMES.

1951	Rainfall		Temperature (Fahr.)	
	in Inches		Maximum (screen)	Minimum (grass)
January	...	3.58	54°	25°
February	...	6.08	50°	28°
March	...	3.64	58°	26°
April	...	3.20	74°	30°
May	...	2.34	71°	35°
June	...	1.31	75°	40°
July	...	1.13	84°	42°
August	...	4.28	79°	42°
September	...	2.77	77°	40°
October	...	1.12	66°	25°*
November	...	4.64	65°	25°
December	...	1.86	54°	20°
Year's Total		35.95		

*The minimum figures for October, November and December are *not* grass—the instrument was destroyed and we had no record.

WEDDING BELLS

Miss Violet Hudson to Mr. Tom Hart, at St. Faith's Church, Brentford, on September 22nd, 1951.

Mr. William Bury to Miss Margery Holden, at the Park Road Methodist Chapel, Derwent, Lancs., on March 18th, 1950.

Miss Margaret J. B. Evans to Mr. J. A. Letch, at St. Michael's Church, Sutton Coldfield, nr. Birmingham, on August 30th, 1950.

We learn that others have joined the "Benedicts" but as full details are not available, they cannot be included under the above heading. The Editors would appreciate details for inclusion in subsequent issues.

NOTES AND GLEANINGS

The Worshipful Company of Gardeners has elected the Director (Sir Edward Salisbury) to the small and distinguished company of those who are Honorary Freemen of the Company, and he was admitted at the Livery Meeting on November 19th, 1951.

The Director, who is Secretary of the Royal Society, was reappointed Vice-President of the Royal Society.

The number of visitors to the Gardens during 1951 was 1,205,957. Of this total, 681,885 visited the Gardens on week-days, and 524,072 came on Sundays. The total shows a decrease of 274,923 on the 1950 attendance, but the drop was due probably not so much to the wet season, as to the counter attraction of the Festival of Britain. It should also be noted that the increased charge for admission into the Gardens came into effect on 1st April, 1951, when the 1d. admission was increased to 3d.

The greatest monthly attendance was in June, with 218,885 visitors, and the lowest in December, with 11,518. The highest week-day attendance was on Whit-Monday (May 14th) with 38,274, while the lowest week-day attendance was on November 8th, with 17 visitors. 22,553 pram tickets were issued and 1,170 bath chairs were admitted.

During 1951, 11,756 packets of seeds were distributed to other establishments throughout the world. Of this total 6,803 packets were Tree and Shrub seeds, 3,909 packets Herbaceous seeds and 1,044 packets of seeds and spores from Indoor plants. In addition, quantities of plant material was sent out.

In Museum No. 1, the rearrangement of specimens was completed towards the end of 1951. It is estimated that well over thirty thousand specimens weighing many tons have been moved or transported from one part of the building to another. Many improvements have been made and various collections that were for years overcrowded, are now shown to much better advantage in larger cases. Various specimens and illustrations relative to the early days of Kew, that existed in various places in the Museums, have now been brought together and arranged as a special exhibit in Museum No. 1.

The International Poplar Congress held in Britain during 1951, held one of its meetings at Kew. With the assistance of a number of the Officials Staff, the party, which included representatives from many countries, were conducted around the grounds, and special labels, supplied by the Forestry Commission, were placed in the *Populus* collection for the benefit of delegates.

Mr. P. J. Greenway, F.L.S., received the Order of the British Empire (O.B.E.) in the King's birthday honours, 1951.

Mr. J. H. Ison, formerly Assistant Park Superintendent at Fleetwood, Lancs., is now Assistant Parks Superintendent to the City of Sheffield.

Mr. Harry Cossom, who left Kew in December, 1935, has now entered Municipal Gardening and has taken up an appointment in the Parks Department at Cheltenham.

Mr. T. Gordon Curry, who has been at the Barking (Essex) Parks Department since leaving Kew in June, 1938, has now been appointed Chief Superintendent of Parks. He was previously Assistant Parks Superintendent.

Mr. H. S. Patton, who left Kew in October, 1926, is now Superintendent of Parks at Walthamstow. Mr. Patton had previously been Superintendent of the Parks at Chingford.

The Saintpaulia or "African Violet" is well known to Kewites as a furnishing plant in the Orchid Show Houses. It is of interest to record that the various varietal forms of Saintpaulia are much grown in America as Room plants in private dwelling houses, and a book dealing with their culture and entitled "All about African Violets" has been written by Montague Free, of the *Home Garden Magazine*, New York. Mr. Free, who left Kew in March, 1912, was for thirty-one years Horticulturist at Brooklyn Botanic Garden.

Mr. A. F. Baker, F.Inst.P.A.(S.A.), retired from the post of Superintendent of Parks to the Municipality of Bloemfontein, in June, 1951, after 31 years' service. Mr. Baker was responsible for much of the development of the Parks and Gardens in Bloemfontein and specialised in water and other formal gardens. His name will always be associated with the layout at Mazelspoort. All Kewites will join us in wishing Mr. Baker many happy years of retirement.

During the year, 36 large trees (19 of which were Beeches) were removed in the Arboretum because of their dangerous condition. Unfortunately, many of the large Beeches which for years have been the main beauty of the woods at Kew, are now showing signs of decline, and a number each year succumb to the ravages of internal decay. One has to face the fact that the majority of the trees, being planted at about the same time, have more or less had their allotted span under the conditions (soil and climate) that prevail at Kew. Several of the trees removed were historical landmarks, particularly the large Horse Chestnut in front of Museum 4, and the large Scots Pine near the Temperate House. It is regrettable that after the removal of so many trees in recent years in the interests of public safety, a fatal accident should have occurred in the Gardens on Sunday, December 9th, when the top of a dead Turkey Oak situated in the woods near the Rhododendron Dell, snapped off and crashed during an exceptionally gusty wind and caused the death of a six years old boy who was playing with others nearby. This is only the second occasion since the formation of the Gardens that a fatal accident has occurred, due to falling trees. The previous occasion was in 1913, when a branch of a large Elm growing just inside Cumberland Gate, crashed on a man sitting on a seat beneath the tree.

Mr. Edward Feltham, who left Kew in 1909, retired in December, 1951, after 31 years in the electrical industry. It was in March, 1920, after completing his war service with the R.A.S.C., that Mr. Feltham entered the electrical service with the Goring Supply Company as a joiner. Later the company was handed over to Western Electric, but Mr. Feltham remained and rose to the position of Branch Commercial Superintendent. Prior to nationalisation, he was with the Wessex Electricity Company. In recognition of his long service, Mr. Feltham was presented with a wrist watch and Mrs. Feltham received a bouquet of flowers and a "Heatmaster" teapot.

On Monday, 19th November, 1951, a large number of the staff assembled in the Keeper's Room at the Herbarium to witness a presentation to Miss Wakefield, who had recently retired. In making the presentation of a gold watch, the Director referred to his first meeting many years ago with Miss Wakefield, who was then only just appointed to Kew. He referred to the very happy spirit in which she had always carried out her duties and the great esteem in which she has been held both at Kew and also by scientists in other establishments. Miss Wakefield thanked the staff for their kindness and said that in her early years at Kew the scientists numbered only 12. There had been many alterations with the passage of time, but there still existed the happy relationships which had always been present with the Herbarium staff.

A further section of the war-time Allotments adjacent to the Kew Palace was discontinued during the year, and the area re-sown with grass. By the end of the year this portion, like others used during the war for food production, had regained its pre-war appearance and was available to the public. The only remaining plots are the Demonstrations allotments and those used by members of the staff, and it is anticipated that all of these will be finished with early in 1952 and will be re-sown with grass.

One of the outstanding features of the Tropical Department during 1951 was the magnificent display of tropical water lilies grown in No. 15 house, the majority of the plants having been propagated from material received from Mr. G. H. Pring, of the Missouri Botanic Gardens, during 1950.

All Kewites are familiar with the Palm House Tunnel running from Shaft Yard to the Boiler Houses beneath the Palm House. For years the obsolete rail track, used to run trucks of coke to the boilers, has given trouble. The track has now been removed entirely and a new concrete floor laid to enable the coke supplies to be carried on a new electrically powered truck. This should prove an asset not only in the saving of labour, but also working conditions.

During the early spring, the panoramic background of the Mohave Desert in the Sherman Hoyt Cactus House was restored, the work being carried out by Mr. G. Atkinson, Botanical Artist at the Jodrell Laboratory. Certain replanting has also been carried out and re-arrangement of specimens to allow blending with the background. The soil surface was also re-covered with coloured sand from the Isle of Wight and Devon.

Valuable additions to the Fern collections were received during 1951, when several consignments of Fern material were received from Ceylon. Altogether there were about 160 species that had been collected by Professor Manton and Mr. F. Ballard during an expedition to Ceylon.

A new Quarantine House was erected at the request of the Colonial Office, and was completed early in 1951. It occupies the site in the Melon Yard, where for years the Chrysanthemums were grown during the summer months. It is 70 feet long and 20 feet wide and is divided into two sections, each with adequate equipment and facilities for propagation. Propagation of stocks of Rubber, *Hevea brasiliensis*, and new clonal stocks of Cocoa from Trinidad is being carried out.

During the Festival of Britain a greenhouse inside the Dome of Discovery at the South Bank Exhibition was furnished and maintained throughout with Economic plants and some of decorative character. It was only with great difficulty and almost constant attention, that the plants were maintained because the artificial heating and tubular electric heating, coupled with a dry, dusty atmosphere, was not conducive to plant growth.

An additional new greenhouse has been erected in the Alpine Yard. It is similar in design to that of the Alpine House and will be used chiefly for housing certain alpine plants during the winter months and also for propagation purposes.

A further section of the Rock Garden was rebuilt during the early part of the year, and involved the removal of the limestone and tufa rock used to accommodate the *Saxifraga* collection. In its place, Sussex sandstone has been used, with the construction on similar lines to the rebuilding carried out in previous years. An additional stream, fed from twin water falls, provides suitable quarters for many of the moisture living Alpine plants.

Demolition of House No. 21 and the old skeleton frame in the Melon Yard commenced during the year and two new greenhouses are being built on the site. It is hoped that these will be available for use by the early summer of 1952.

The new Australian House was completed during the late summer, but certain modifications and a few difficulties prevented the planting of the house as early as had been anticipated. This work will be carried out early in 1952, when it is hoped to open the house to the public.

To facilitate the carriage of materials into the Temperate House, a ramp with an easy gradient was constructed during the autumn, near to the south octagon. It is now a matter of ease to take Barrows and handcarts into the Temperate House. Old Kewites, particularly those who served in the Temperate House, will recall that previously all material entering the house had to be carried up the steps to the entrance doors.

Mr. C. Warren writes from California that the common Geranium has been developed so much by his firm in Northern California that they regard it as providing their bread and butter. In addition they grow thousands of Fuchsias of the hybrid varieties, and a list forwarded to Kew shows that they have a large number which are not grown in this country. Mr. Warren's firm also have devised and maintained for some considerable time a correspondence course in orchid growing which has enrolled hundreds of students from all over the world.

Mr. A. C. Miles has retired from his appointment at Accra, Gold Coast Colony, and is now living in North Wales, his address being: Minafon, Bettws Garmon, Carnarvon.

HERBARIUM NOTES

Mr. Ballard returned to Kew from Ceylon on February 19th, 1951. During his stay of nearly three months he travelled extensively in the island and collected and dried nearly six hundred specimens of ferns, grasses and sedges. For five weeks he accompanied a party from Leeds University, led by Prof. Irene Manton and including Drs. F. W. Sledge and H. G. Baker. During this period several hundred living ferns were despatched to Kew by air, a method of transport which proved highly successful. Although the plants were to remain at Kew, they were sent primarily to provide Prof. Manton with living material for her cytological studies. The most outstanding additions to the Kew collections were specimens of two endemic tree-ferns, *Cyathea sinuata* and *C. hookeri*. It is doubtful whether these two species have ever been in cultivation before. In order to secure as high a proportion as possible of the known ferns of Ceylon within the time available, long journeys by car were necessary. Places visited included Kandy, Nuwara Eliya, Ratnapura, Anuradhapura, Trincomalee, Galle, Negombo and many others. Mr. Ballard also took several hundred photographs, both in colour and black and white.

In this JOURNAL for 1949, p. 764, it was reported that Mr. A. A. Bullock had left for a year's secondment to the International Red Locust Control Service in Central Africa. The original period was eventually extended to two years and Mr. Bullock was joined by his wife and daughter for the second year. He returned to Kew on September 15th, 1951, having sailed from Cape Town via St. Helena, Ascension and Las Palmas. He writes as follows: "I have had a wonderful experience and shall always be grateful to the Director, to Mons. H. Bredo and to Dr. B. P. Uvarov for making it possible. After staying with Mr. P. R. O. Bally in Nairobi for ten days, I flew south to Kasama and then travelled north to Abercorn which was to be my base. From there I constantly travelled either westwards to the Nuveru Wa Ntipa or northwards across the Ufipa Plateau to the valley of Lake Rukwa, to Lake Chada and Lake Katair; on one long safari I penetrated as far north as Kibondo. In the course of these wanderings, covering many thousands of miles by truck, on bicycle and on foot, I made a very large collection of plants for the Herbarium and made over a thousand photographic exposures. I hope to be able to show members of the Guild some of the latter in the form of lantern slides at a future date. For the greater part of the time I was in areas devoid of surface water during the dry season and subject to flood during the rains; full of tsetse-fly throughout the year, with the added annoyance of mosquitoes by day and night during the rainy season. Such discomforts were, however, more than offset by the pleasure of seeing the magnificent flora, the great numbers of game animals and the freedom of the seemingly endless woodlands and open plains, unconfined by ditch or fence and lacking notices—TRESPASSERS WILL BE PROSECUTED or even BIRDS NESTING PROHIBITED."

Students' Exhibition, May 4th and 5th, 1951. This popular event, the third to be held in the Herbarium, attracted a large number of students and other interested people in spite of inclement weather.

Miss J. Taylor, B.Sc., was appointed Scientific Officer in the Herbarium as from June 1st, 1951. Miss Taylor has been given charge of the Bryophyta collections. Later in the year she received the M.Sc. degree.

Mr. V. S. Summerhays' book on *Wild Orchids of Britain* in the New Naturalist Series, appeared in April, 1951.

Part V of Miss Ross-Craig's *Illustrations of British Plants* appeared in November, 1951.

Miss M. I. Kierans, who left Kew in 1949 to take up duties at Ministry of Agriculture and Fisheries headquarters, returned to the Herbarium during 1951. After a short period as a Shorthand

Typist, she was promoted to Clerical Officer and took up her new duties in the Herbarium Library.

Mr. B. L. Burt, Senior Scientific Officer, was promoted Principal Scientific Officer on being appointed at the Royal Botanic Garden, Edinburgh.

THE WAR MEMORIAL

The unveiling of the War Memorial to those men who gave their lives in the Second World War took place on Armistic Day, Sunday, November 11th, 1951, at 2 p.m. Accompanied by many relatives of those whose names were inscribed on the plaque, a large assembly of past and present Kewites were present, when the President of the Kew Guild, Mr. H. Spooner, opened the proceedings. Mr. Spooner stated that Kewites both at home and from all parts of the world had willingly subscribed towards the cost of the Memorial, and that it was a tribute to the overwhelming support received that the cost of the Memorial was over subscribed within a few weeks of the appeal being launched. He desired to thank the Director, Sir Edward, for his kindness in allowing the plaque to be added to that which commemorated the men who had fallen in the first Great War, and desired him to accept and unveil the tablet.

Sir Edward Salisbury then carried out the unveiling ceremony, releasing the Union Jack which covered the whole of the Memorial, leaving exposed the old and new plaques wreathed with laurel leaves and Poppy flowers. Sir Edward spoke of the great service these men had rendered their country, and of the very staunch manner in which they had carried out their duties. He hoped, like many others, that the sacrifices they had made would not be in vain. He then asked Bishop Dean to dedicate the Memorial.

The Bishop, in his remarks, spoke of the excellent work carried out both by past and present Kewites, and he referred to the happy associations which one always experienced in the Gardens at Kew. He felt that the memory of those who had passed would remain with the future generations for all time, and said that he was a very proud man indeed to have been chosen to dedicate this Memorial. The service concluded with prayers by the Vicar of St. Anne's Church, the Rev. C. D. Pronger, after which, before the company dispersed, a good deal of discussion took place between the relatives of the 15 men who had fallen and those members of the staff who were conversant with them during their time at Kew.

The donations to the War Memorial totalled £167 4s. 0d., the cost of the Memorial Plaque, together with other expenses, was £71 16s. 3d., leaving a balance in hand of £95 7s. 9d., which, the Special Committee set up to launch the appeal hope to utilise to the best advantage.

STUDENT GARDENERS

In accordance with a proposal made at the 1950 Annual General Meeting of the Kew Guild, this article is written on behalf of the Student and Improver Gardeners' Association. This Association is the successor to the Foremen and Student Gardeners' Association, and its officers have been the spokesmen of the Students in matters appertaining to training since its inception in January, 1948.

The untimely death of Mr. Fox Wilson, always a firm friend of the Students, came as a blow, but we were fortunate in obtaining a worthy successor in Dr. Jepson, of Imperial College. Mr. Green, of Wisley, still continues to give his lectures on "Mycology," and Mr. Warren, of Rothampstead, on "Soils" and "Chemical Control of Weeds." The remaining lectures are given by members of the Kew Staff, Drs. Turrill, Metcalfe and Melville, on "Genetics," "General Botany" and "Taxonomy" respectively, whilst the Curator, Mr. Campbell, deals with both "Landscape Gardening and Construction" and "Landscape Design Drawing."

Every Student will now receive 40 demonstrations during his two years at Kew. These have been devised to cover all practical aspects of Horticulture, including such subjects as "Budding and Grafting," "Floral Arrangement," "Orchid Propagation and Cultivation" and "Turf Renovation and Maintenance." One demonstration entitled "Geometry" kept many Students guessing, until thought as to the origin of the word led to the obvious answer. The demonstrations are given in the appropriate departments by the Assistant Curators.

Plant identification tests are now held at regular fortnightly intervals; these are organised in turn by the Assistant Curators.

All Students now go to every alternate R.H.S. Show as well as to the Chelsea Show. In addition, four day excursions are arranged to John Innes Horticultural Institution, Cheshunt, East Malling and Rothampstead Experimental Stations.

Kew Students, like all others, have been affected by the rising cost of living, but we are pleased to state that three increases have brought the weekly subsistence allowance up to 110/-.

1951 marked the advent of a weekly paper, published by a Committee of Students. This is entitled "Kew Notes," and consists of a typewritten sheet of articles of Horticultural interest written by Foremen, Students and other members of the Kew Staff, and it is typed and duplicated with the kind co-operation of the Office Staff. It has proved of much interest amongst Students, and we are particularly grateful to the full support given by the Foremen in supplying so many informative articles.

Old Kewites will see that some alterations and improvements are taking place as the course at Kew gradually adapts itself to changing conditions. It is to be hoped that more far reaching improvements will be possible in the near future, so strengthening the good name forged by old Kewites, that it may remain a hall-mark of quality in the Horticultural world.

E. W. CURTIS, *Hon. Secretary.*

HORTICULTURAL EDUCATION IN MODERN SCHOOLS

By E. VERDUN WRAY

(Rural Science Master, Wroughton Area Secondary Modern School, Burderop Park, Nr. Swindon, Wiltshire)

I am sure that there is many a student who, at some time or another during his training at Kew, desires to follow the educational side of his profession. He usually makes a few discreet inquiries, and then gives up the idea because he cannot discover what it really entails. This is largely due to the present lack of detailed information published for his guidance in the various branches of this particular field. In this short article I set out to help the student in some small way by quoting from experiences of the past few years. I must point out, however, that only main issues can be commented upon in an article of this kind, but as the subject is particularly suitable for discussion, it should provide an interesting topic for the Mutual Improvement Society.

THE PLACE OF HORTICULTURE IN MODERN SCHOOLS.

The teaching of Gardening in schools goes back for many years. In the past it was taught primarily as a practical subject and as a form of mental relaxation. In recent years, and particularly since the Education Act of 1944, great advances have been made, and the subject is now practical and theoretical, and is taught much more along educational lines. The term Gardening is now rapidly disappearing in favour of Rural Science, as it now forms part of this composite subject.

RURAL SCIENCE

Rural Science might be termed The Scientific Study of the Countryside. It covers a group of closely related subjects, namely: Nature Study, Biology, Botany, Ecology, Zoology,

Horticulture and Agriculture. All these subjects are covered in the teaching of Rural Science, the time given to any particular subject depending on the type of school and the age and ability of the pupils, *e.g.*, More time is spent on Nature Study with junior pupils than with seniors; More time is given to Botany in a Grammar School than in a Secondary Modern School.

Various forms of Rural Science are taught in Primary, Secondary Modern and Grammar Schools, but as yet, it is in the Secondary Modern School that the subject has received the most attention. The subject naturally lends itself ideally to a rural school, but with certain modifications, it can, and is being taught very satisfactorily in other types of schools. Specialist teachers who deal exclusively with the subject, are usually employed in the larger rural schools, where good facilities and a wide scope exists. The professional horticulturist is naturally advised to seek this type of post.

THE RURAL SCIENCE TEACHER.

Rural Science is a difficult subject to teach successfully, and a good deal of responsibility is involved. It is therefore most important that the teacher should be qualified and suitable in every way. The required qualifications vary from county to county, and the student will be well advised to acquaint himself at an early date with the qualifications necessary for an appointment in any particular area. The Director of Education, Horticultural Advisor or Rural Subjects Organiser will gladly supply this information. The importance of teaching qualifications and experience, as well as sound knowledge and training in rural science subjects, cannot be over emphasised.

TEACHING METHODS.

Teaching methods vary according to the type of school and its particular environment. There are, however, three basic necessities if the subject is to approach major importance in any school. These are as follows:

- (1) Suitable environment.
- (2) Good facilities for practical and theoretical work.
- (3) An adequate supply of tools and equipment.

ENVIRONMENT.

Suitable environment is particularly important in the teaching of Rural Science. The countryside should be within easy reach for Nature Study, Biology and allied subjects, while farms, gardens and nurseries should be readily accessible for the study of Agriculture and Horticulture.

FACILITIES

Facilities should be good for both practical and theoretical work.

For practical work a good large garden should be available. The garden should offer the widest horticultural education, but must always be kept well within reach of the practical and theoretical ability of the pupils.

A Laboratory or Practical Room should also be available for indoor practical work. Practical demonstrations and experiments should also be a regular feature of this room. A greenhouse and cold frames are also valuable assets in the teaching of practical work.

For theoretical work a good large room is required, with plenty of space for desks or tables, and additional room for a Nature Table and various other exhibition tables. There should also be ample provision for the display of wall charts, pictures, notice boards, and other features. The constant display of suitable educational material in this room is of vital importance to effective theoretical work, and the training and skill involved in seeking it and bringing it to school is of great educational benefit to all pupils concerned. The display of plants which are of botanical and decorative merit should be a constant feature in this room, as well as seasonal flower arrangements.

TOOLS AND EQUIPMENT.

There must be an adequate collection of tools and equipment of every kind, and ample storage room. The pupils should be trained to use everything with care, and to clean all tools and equipment after use.

Successful teaching also depends on the active interest, support and understanding of officials and colleagues in the county and the school. This is particularly vital when organising the subject in a new school.

CONCLUSION.

It may be said that horticultural education in modern schools is at a very interesting and crucial stage at the present time. There is still much pioneer and experimental work to be done before Rural Science is accepted and understood. This is a challenge in which professional horticulturists should be particularly interested, as it comes at a time when anything which can be done to stimulate genuine interest in horticulture is of vital importance, not only to the profession itself, but also to the national economy. No one should be misguided regarding the hard work involved in the acceptance of this challenge, but in doing so, one can be assured of a job of exceptional interest, and one which has possibility and prospects.

In Memoriam

J. DYFRI JONES



The death of this Old Kewite occurred on September 28th, 1951, at the age of 77 years. John Dyfri Jones was born at Llandovery in 1874, and was trained for a teaching career, being a school master for three years. This work, however, did not appeal to him and he turned his attention to horticulture. He held posts in private gardens at Llandovery and Chester, before entering Kew as a Student Gardener in February, 1896. Subsequently he became Label Writer—a position that was comparable with that of a Sub-foreman.

Mr. Jones spent four and a half years at Kew and then left in June, 1900, to take up the position of Head Gardener to the Bournville Village Trust, where he was responsible for the laying out of the gardens and parks of the Bournville Village. He remained at Bournville until his death, the post he occupied being designated as Superintendent of the Garden Department and Manager of the Bournville Nursery. In this capacity, Mr. Jones had been active up to the time of his illness, which had kept him in bed for sixteen months. Throughout his long illness, he always remained cheerful.

He was always a busy man, being in almost constant demand as a judge at Horticultural Shows throughout the Midlands, where he also gave his services to numerous associations in an advisory capacity. Among his many activities, Mr. Jones was for eight years Instructor in Horticulture for the Worcester County Education Committee and also for the West Bromwich Education Committee, for whom he lectured to day school teachers. For thirty years he was Tutor in Horticulture at the Fircroft College, and for twenty years Lecturer, Instructor and Advisor in Horticulture to the Birmingham Education Committee and also to the Birmingham Allotments Committee. He also voluntarily lectured on Horticulture to the inmates of H.M. Prison at Winson Green.

During both wars, he was engaged on food production planning under the Ministry of Agriculture. He took part in Midland Brain Trusts and also did broadcasting on the Midland Regional programme of the B.B.C. He was also a contributor of gardening articles to the "Birmingham Despatch."

An ardent churchman, he was for over forty years Church Secretary and Sunday School Superintendent.

From this brief outline of Mr. Jones' activities it is obvious that he lived every moment of his life to the full, until heart trouble confined him to bed for sixteen months prior to his death.

John Dyfri Jones was a highly respected and well-known Kewite, always ready to give advice and a helping hand to anyone who sought his assistance. To his son and other relatives we extend the sympathy of all Guild members in their irreparable loss.

ALFRED E. EVANS



The death, at the age of 71 years, of Mr. A. E. Evans, occurred at Hove, Sussex, on July 4th, 1951, after failing health during the last three years of his life.

Mr. Evans left Kew in 1901 to take up an appointment as Assistant Curator in what was then known as "The Botanical Department" of The Gold Coast Colony. In 1907 he became Travelling Inspector in the newly created Department of Agriculture, a post he held until the Department was reorganised in 1920, when he became Provincial Superintendent of Agriculture in Ashanti. He acted as Director on several occasions and retired in 1923 after 22 years' service, such long service at that time being considered something of a record. He settled down

at Hove and enjoyed good health until he broke down three years before his death.

Mr. Evans had a hard and strenuous time and it is safe to say that at the time of his retirement no other European had seen so much of the country as his work entailed, visiting practically every area in the Colony and Ashanti, and travelling in

the Colony was no easy matter until about 1912, when road construction rapidly developed. For the greater part of his career he travelled on foot or cycle, often off the beaten track for weeks on end.

I well remember my first meeting with Mr. Evans soon after my arrival in the Gold Coast in October, 1911. He had just returned from a three months tour of Inspection. He looked remarkably fit and he was a subject of wonderment to anyone who had done ten years in what was still known as the White Man's Grave.

Mr. Evans, like many other pioneers of the early days of this century, upheld the reputation of Kew and played no mean part in the development of the Cocoa Industry, which only started in the late nineties and by 1912 the Gold Coast supplied two-thirds of the world's market; one of the wonderments of the age, as it was, and still is, mainly in the hands of peasant farmers.

He was held in high esteem by all with whom he came in contact. He was a keen tennis player and lived a very active life. Evans can be looked upon as one of the few of his day who lived many years to enjoy his pension, and was one of Kew's true pioneers, many of whom did so much to lay the foundations of Agricultural progress in Tropical Countries.

T. HUNTER.

MRS. WINTON SMITH (née Nellie Robshaw)

News of the death of Mrs. Winton Smith, which occurred at Chester, Nova Scotia, on May 13th, 1949, only reached us in a letter dated August 13th, 1951, from her friend and Old Kewite—Miss Anne B. Freda, also of Chester, Nova Scotia, Canada.

Mrs. Winton Smith was a respected member of the Chester community, being loved for her friendliness, her fondness of flowers and her work with them. She had a liking for the better books and poetry, and the writing of which she had a natural gift. Her generous, unselfish devotion to duty and her kindly interest in the people with whom she came in contact, made her a favourite with everyone. Her motto was—"If you cannot say something kind about people, say nothing."

A small plaque and a special flower bed in the Chester Library Grounds are dedicated to her memory.

Mrs. Winton Smith was a woman gardener at Kew during World War I, and left Kew in May, 1919.

S. A. PEARCE.

ERNEST HEMMING

By the death of Ernest Hemming at the age of 83, yet another of the older generation of Kewites has passed on. He died suddenly whilst walking in his garden on March 31st, 1951.

Born at Aesager, Cheshire, Mr. Hemming received his early training in several large private gardens. He entered Kew as a Student Gardener in 1889, and left in May, 1891, to join the staff of the *Gardeners' Chronicle*, but after a short time, on the advice of his doctor, he went to America, where he hoped the climate would benefit his health. His first appointment in the U.S.A. was with a firm of Landscape Gardeners—Miller and Yates. Later he joined the famous plant firm of Pitcher and Manda, of Short Hills, New Jersey.

With his health still troubling him, Mr. Hemming went west in search of a more favourable climate, and for five years lived at Salida, Colorado. He was there during the days of the gold rush and the fights of the railroad barons, but continued with his horticultural work, becoming gardener for the Denver and Rio Grande Railroad Hospital. During this time Mr. Hemming's health greatly improved and he paid a visit to his home in England. On his return to America, he obtained the post of herbaceous plant foreman at the Meehan Nurseries, Germantown, Pasadena, where he remained for twenty years. He married in 1902 and became a citizen of the U.S.A. From 1915 to 1925 Mr. Hemming was Editor of the *National Nurseryman*. Later he joined with another horticulturist in forming the Canterbury Nurseries. In 1929, with his second son, he founded the Eastern Shore Nurseries at Easton, Maryland, where his chief interests were devoted to landscape work. Mr. Hemming who was a life member of the Guild, was forced into virtual retirement several years ago by illness and the nursery business has been in the hands of his son and son-in-law. He is survived also by his daughter and another son.

S. A. PEARCE.

 ROBERT DERRY

We learn with regret of the passing of this old Kewite, his death occurring on September 14th, 1950. Mr. Derry, a life member of the Guild, left Kew in November, 1883, and was for many years Superintendent of the State Gardens, Perak, Malay Peninsular. During his retirement he lived at Richmond and in recent years at Twickenham.

CHARLES J. HOWLETT

We learn with regret of the passing of another of the older members of the Guild—Mr. Charles Howlett—who died on 7th June, 1951. His death, due to cancer, was a happy release for he had, during the last six months of his life, suffered severely.

Charles Howlett entered Kew as a Student Gardener in December, 1892, from the Wood Lane Nursery, Isleworth. After serving in several departments, he left Kew in November, 1894, to take up an appointment in South Africa at Uitenhage, Cape Province. Five years later he was appointed Curator at the Botanic Gardens, Graaff Reinet, where he remained for sixteen years. His chief hobby during his stay at the Graaff Reinet Botanic Gardens was the collecting of rare specimens of plants on the Veldt, a number of which he sent to the Kew Herbarium. In 1915 Mr. Howlett accepted the appointment of Manager to the Schaapkraal Nurseries at Tarkastad, Cape Province, where he remained for seventeen years. He returned to England in 1932, and resided at Feltham, Middlesex, with his interests at the Royal Nurseries, Bedfont Lane.

S. A. PEARCE.

F. C. DALGARNO

It is with regret that we record the death of Frederick Charles Dalgarno, a life member of the Guild, who passed away on January 29th, 1951. Mr. Dalgarno entered Kew in December, 1899, and after the usual period of service, he left early in 1902 to return to his father's nursery, where he remained for two years. He was then appointed Park Superintendent of Bowes Museum Park, Barnard Castle, Co. Durham, where he remained for nearly thirty years and was responsible for the laying out of the grounds, also the construction of bowling greens, tennis courts and other playing pitches. Mr. Dalgarno's hobby was Music, and he played the violin in the Orchestra of the Local Choral and Operatic Society. He is survived by his wife, to whom we extend our sympathy in her irreparable loss.

S. A. PEARCE.

Mrs. C. L. FLACK

We learn with regret of the death of Mrs. C. L. Flack, which occurred on October 1st, 1951, whilst in hospital at Winnipeg, Canada. Mrs. Flack (née Jessie Mash) entered Kew in 1913, and was for a number of years a member of the Herbarium staff (temporary Technical Assistant). She left Kew in January, 1919, to go to Canada.

T. CARTWRIGHT

With the sudden passing of Mr. T. Cartwright in January, another Kewite who was a Sudan link in the chain of Kewites from Cairo to the Cape has gone; and the numbers grow less and less.

Mr. Cartwright entered Kew in November, 1905, from the noted Gardens of Picton Castle at Haverfordwest.

In May, 1908, he was selected for the post vacant in the Agricultural and Forests Department of the Sudan Government, and I had the pleasure of meeting him on his arrival at Khartoum, since then we have had many happy times together.

Tom Cartwright was a quiet, unassuming fellow, liked by all who met him, and kindness itself to those who happened to call on him in the out-of-way places where he was stationed.

He was a pioneer on several new ventures, including the growing of rubber and timber in entirely new country and most of the time led a lonely life. For years he was at Kagulu, some 120 miles in from Juba on the Congo border, where Ceara rubber and coffee did well, the success being due to Mr. Cartwright's efforts.

In 1919 I had the benefit of his company during a trek in the Yei Valley, where we collected specimens for the Kew Herbarium, and discovering several new plants from a district where little collecting had been done since Schweinfurth's travels some 50 years earlier.

In later years he was stationed at Shambat Farm and was responsible for a lot of research work being carried out. He retired from the service in 1931, and for years has resided at Mouldsworth, near Chester.

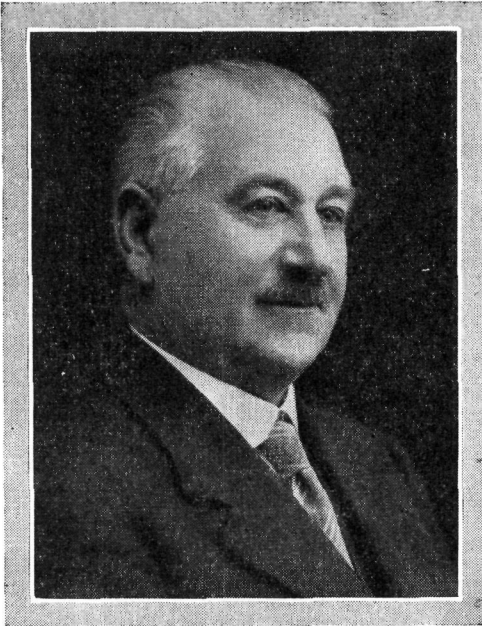
He leaves a widow, to whom all members of the Guild extend their sympathy.

F. S. SILLITOE.

T. W. BROWN, F.I.S., A.H.R.H.S.

We have learned with deep regret of the death of Mr. T. W. Brown, who left Kew in November, 1899, and was for years Director of Horticulture at Giza, Cairo. Mr. Brown was a life member of the Guild, and his son, Mr. C. P. Brown, resides at 360, Finchley Road, London, N.W.3, to whom a letter of condolence was sent by the Secretaries on behalf of all members.

C. P. RAFFILL, M.B.E., V.M.H.



As recorded in our previous JOURNAL, the death of Mr. Raffill occurred at his brother's home, Coventry, on March 27th, 1951, just two weeks following his retirement from Kew. The news came as a great shock to all in horticultural circles, and Kewites at home and abroad were saddened by the news.

For nearly 53 years C.P.R. or Charlie, as he was very affectionately called, served the authorities at Kew, during which period many young men passed through his hands, and ultimately became his friends.

He was, as an Assistant Curator, a strict disciplinarian with a great fund of humour, so that he could always temper the hardest decisions with a kindly word. Little wonder that his staff always held him in the highest esteem.

Amongst horticulturists, Mr. Raffill was probably without compeer with his contemporaries, as his unrivalled knowledge never ended with the plants he grew, but included any plant which was of interest, whether tropical, temperate or otherwise. His memory was exceptionally good, and even up to his last days at Kew, never failed him, a remarkable achievement for one nearly 75 years old.

Mr. Raffill's hobbies were numerous, and though in his earlier days he had done considerable work with Lilliums, Rhododendrons, Fuchsias and other genera, towards the end Iris became his great passion. So in sport, his interests were numerous and in his day he had been an outstanding performer at football, cricket, running, boxing and rifle shooting. Coupled with photography, these interests brought him many awards, and none he prized more than the Victoria Medal of Honour awarded to him by the Royal Horticultural Society and the M.B.E. which was presented to him by the late King George.

Kew and Kewites at home and abroad will cherish the memory of Charles Percival Raffill, one of the finest horticulturists ever to serve the Royal Botanic Gardens, Kew. W.M.C.

KEW STAFF LIST
(as at December, 1951)

*Life Member of Guild.

†Formerly a student gardener at Kew.

	<i>Entered Kew</i>
DIRECTOR'S OFFICE	
Director	*Sir E. J. Salisbury, C.B.E., D.Sc., Sec. R.S., F.L.S. 1943
Asst. Director (Senior Principal Scientific Officer)	*N. L. Bor, C.I.E., M.A., D.Sc., F.L.S. 1948
Economic Botanist	*Sir Geoffrey Evans, C.I.E., M.A., Dip. Agric. 1938
Staff Officer	F. G. Solomon 1948
Clerical Officer	Mrs. L. A. Kell 1948
	Mrs. A. M. E. Kendall 1947
Clerks (Temporary)	Mrs. K. C. Brown 1951
	Mrs. Bulbeck 1951
HEBARIUM AND LIBRARY	
Keeper (Senior Principal Scientific Officer)	W. B. Turrill, D.Sc., F.L.S. 1909
Principal Scientific Officer	V. S. Summerhayes, B.Sc. 1924
" " "	F. Ballard, B.Sc. 1929
" " "	N. Y. Sandwith, M.A., F.L.S., F.R.G.S. 1924
" " "	†C. E. Hubbard, F.L.S. 1920
" " "	E. W. B. H. Milne-Redhead, T.D., M.A., F.L.S. 1929
" " "	H. K. Airy-Shaw, B.A., F.L.S., F.R.E.S. 1925
" " "	R. Melville, B.Sc., Ph.D., F.L.S. . 1934
" " "	R. W. G. Dennis, B.Sc., Ph.D. ... 1944
Senior Scientific Officer	A. A. Bullock, B.Sc., F.L.S. 1929
" " "	*J. R. Sealy, B.Sc., F.L.S. 1927
" " "	J. P. M. Brenan, M.A. 1948
" " "	J. B. Gillett, M.A. (Colonial Office) 1950
" " "	R. D. Meikle, B.A., LL.B. 1947
" " "	R. W. J. Keay, M.A., F.L.S. (Colonial Office) 1951
Scientific Officer	J. H. Hemsley, B.Sc. (Colonial Office)
" "	J. Lewis, B.Sc. (Colonial Office)
" "	D. A. Reid, B.Sc. 1951
" "	L. L. Foreman, B.Sc. 1951
" "	F. N. Hepper, B.Sc. 1951
" "	Miss J. Taylor, M.Sc. 1951
Experimental Officer	†E. Nelmes, F.L.S. 1920
" "	Miss C. I. Dickinson, M.A., Dip. Agric. 1928
" "	R. A. Blakelock, B.Sc., F.L.S. ... 1937
Assistant Experimental Officer	Miss P. Lewis, B.Sc., F.L.S. 1947
" " "	J. K. P. Kennedy O'Byrne 1948
" " "	P. Taylor 1948
" " "	R. B. Drummond, B.Sc. (Colonial Office) 1949
" " "	Miss D. E. Wiltshire, B.Sc. 1950
Botanist (visiting) for South Africa ..	B. de Winter, B.Sc. 1950
Botanist (visiting) for Australia	Miss M. D. Tindale, M.Sc.
Hon. Associate	E. M. Marsden-Jones, F.L.S., F.R.E.S.
Botanical Artist	Gerald Atkinson 1922
" "	*Miss S. Ross-Craig, F.L.S. 1929
" "	Miss D. R. Thompson 1949

FOREMEN

<i>Department</i>	<i>Name</i>	<i>Entered Kew</i>	<i>Previous Situation</i>
Rock Garden	Bentham, H.	11 Jan. 1949	Bolton Parks Dept.
Ferrieries	Bruty, H. J.	2 Jan. 1946	Stoke College, Clare.
Temperate House Pits	Bridle, W. H.	11 Mar. 1946	Ranlagh Club, Barnes.
Orchids	Nicholson, G. E.	2 Oct. 1947	Digby-Stuart Training College, Roehampton.
Decorative Department	Larkbey, F. A.	9 June 1947	Sansaw Gardens, Clive, Shrewsbury.
Arboretum (Propagator)	Storey, W. E.	1 Oct. 1947	Manchester Parks Dept.
Botanics	Gardner, G. C. W.	1 Feb. 1926	Chatsworth House, Derbyshire.
Arboretum	Shutler, P. G.	9 Nov. 1946	Previously at Kew.

STUDENT GARDENERS

<i>Name</i>	<i>Entered Kew</i>	<i>Previous Situation</i>
Bee, R. A.	1 Oct., 1951	Lord Aberconway, Denbighshire.
Bett, J. R.	3 April, 1950	John Innes Horticultural Institute, Bayfordbury.
Brasher, P.	1 Oct., 1951	Burt, Boulton and Haywood, Kent.
Cameron, J. D.	1 Oct., 1951	Glasgow Parks Dept.
Carn, L.	2 April, 1951	Improver at Kew.
Carson, A. R.	2 April, 1951	W. J. Forsythe, Bangor.
Castree, F.	2 April, 1951	Derby Parks Dept.
Comber, J. B.	2 April, 1951	Sutton & Son, Slough, Bucks.
Curtis, E.	2 April, 1951	Improver at Kew.
Dally, H. R.	2 Oct., 1950	Bath Parks Department.
Dunball, A. P.	1 Oct., 1951	Cambridge Botanic Gardens.
Duncan, C. A.	1 Oct., 1951	Bournemouth Parks Department.
Evans, K.	3 April, 1950	R.H.S. Gardens, Wisley.
Farrar, T. H.	2 April, 1951	Bexley Parks Department.
Fuller, G. M.	2 April, 1951	Improver at Kew.
Galloway, I. D.	2 April, 1950	Bournemouth Parks Department.
Garnett, J. B.	2 April, 1951	Regents Park. Min. of Agriculture.
Gibbons, J. E.	1 Oct., 1951	R.H.S. Gardens, Wisley.
Gilmour, W. N. G.	2 Oct., 1950	Glasgow Parks Department.
Hamblin, I. C.	8 Aug., 1950	Cambridge Botanic Gardens.
Hubbard, D.	2 April, 1951	Royal Gardens, Windsor.
Huggett, P.	2 Oct., 1950	Barking Parks Department.
Iddenden, J. R.	16 Oct., 1950	L.C.C. Parks Department.
Ibbotson, D.	3 April, 1950	Middlewood Hospital, Sheffield.
Littlewood, G.	2 Oct., 1950	Rotherham Parks Department.
Mellors, G.	2 Oct., 1950	R.H.S. Gardens, Wisley.
McLachlan, D. D.	3 April, 1950	Gayboider Nurseries, nr. Derby.
McLachlan, P. A.	3 April, 1950	Links and Parks Department, Aberdeen.
Nutt, P. A.	2 April, 1951	Regents Park. Min. of Agriculture.
Offord, K. A.	3 April, 1950	Ipswich Parks Department.
O'Reilly, M.	2 Oct., 1950	Wallington Parks Department.
Parker, H. H.	2 Oct., 1950	Fleetwood Parks Department.
Scott, G. S. G.	3 April, 1950	Cambridge Botanic Gardens.
Seager, T.	2 April, 1951	Coventry Parks Department.
Shepherd, M. W.	1 Oct., 1951	Exeter City Council.
Sieben, J. R.	23 Oct., 1950	Fleetwood Parks Department.
Smith, I. L.	1 Oct., 1951	R.H.S. Gardens, Wisley.
Stone, C.	1 Oct., 1951	Manchester Parks Department.
Taylor, H.	2 April, 1951	Glasgow Parks Department.
Tebby, P.	2 April, 1951	Torquay Parks Department.
Ward, W. B.	17 Oct., 1949	Royal Gardens, Windsor.
Weighill, A. G.	12 Mar., 1951	John Innes Horticultural Institution, Herts.

WOMEN GARDENERS AND DEMONSTRATORS

<i>Name</i>	<i>Entered Kew</i>	<i>Previous Situation</i>
Kelly, E. F.	26 Aug., 1940	Glasnevin B.G., Dublin, Eire.
Periam, R.	17 Nov., 1947	Zoological Gardens, Regents Park.
Chaplin, M.	15 Oct., 1951	Festival of Britain.

IMPROVERS AND GARDEN BOYS

P. Bland, G. Collins, P. E. Millwood, D. Theobald, M. R. A. Heaster, W. Falconer,
A. Tullett, A. L. Read, J. Mullins.

ADDRESS LIST OF OLD KEWITES

(The Names of Life Members are preceded by an asterisk)

ABBREVIATIONS: H.G., Head Gardener; F., Foreman; N., Nurseryman; M.G., Market Gardener; C., Curator; D., Director; M., Manager; B.G., Botanic Gardens; S., Superintendent.

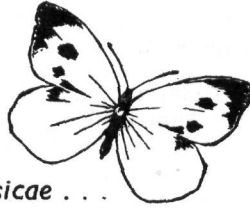
<i>Name</i>	<i>Left Kew</i>	<i>Present Position and Address</i>
Abbing, J.	Nov. 1936 ...	Beauwea Park, P.B., Grahamstown, S Africa.
Adams, Miss D.	Aug. 1945 ...	Address unknown.
*Adamson, John	July 1909 ...	Hardy Plant Nursery, Hollywood, Dumfries.
*Addison, G. H.	May 1938 ...	Botanic Gardens, Singapore, S.S.
Agate, C. J.	April 1926 ...	21, Hayden Avenue, Great Neck, Long Island, N.Y., U.S.A.
*Aikman, Miss M. G.	Nov. 1924 ...	18, London Street, Edinburgh 3,
Ainslie, E.	Sept. 1949 ...	Blackburn Parks Dept., and 19, Oban Grove, Astley Bridge, Bolton, Lancs.
*Airey, J. E.	May 1939 ...	Westmoor Gardens, Mansel Lacy, Hereford.
*Albert, Mrs. H.	Mar. 1945 ...	47, Arstice Street, Oyster Bay, N.Y., U.S.A.
*Alcock, Mrs. N. L., M.B.E. F.L.S.	Nov. 1918 ...	108, Cole Brook Street, Winchester, Hants.
Alcock, R. M.	Mar. 1930 ...	Address unknown.
Allen, Miss B.	Jan. 1946 ...	11, Church Avenue, Harrogate.
*Allen, C. E. F.	Feb. 1904 ...	Address unknown.
Allen, F. H.	Sept. 1948 ...	L'Ecole d'Horticulture Vilvorde de L'Etat, België.
Allison, B. W.	Jan. 1930 ...	Asst. Supt., Parks Dept., Salford, Lancs.
*Allt, W. S.	Jan. 1911 ...	E. Market Street, Hyde Park, N.Y., U.S.A.
Alston, A. H. G., M.A.	June 1925 ...	British Museum (Nat. Hist.), S.W.7.
*Ambrose, Miss R. M.	Dec. 1945 ...	c/o Empire Potato Collection, Imp. Bureau Plant Breeding and Genetics, Cambridge.
*Anderson, A. W. C., N.D.H. (N.Z.).	Feb. 1926 ...	S., Parks and Reserves, Timaru, N.Z.
*Anderson, J. W.	June 1910 ...	Granta, Bucklesham, Ipswich, Suffolk.
Andrews, R. H.	April 1947 ...	42, St. Catherines Road, Southbourne, Bournemouth.
*Andrews, W. G.	Oct. 1922 ...	Address unknown.
Armitage, Miss M. A.	Feb. 1945 ...	Address unknown.
*Armstrong, C. E., N.D.H.	April 1947 ...	Hort. Lecturer, Kesteven Farm Institute, Caythorpe Court, nr. Grantham, Lincs.
*Arnold, T. A.	Jan. 1931 ...	157, Jeppe Street, Johannesburg, S.A.
*Ashby, Mrs. D. (F. A. Sharps)	June 1944 ...	c/o Pest Control (Rhodesia) Ltd., Salisbury, S. Rhodesia.
Ashlee, T. R., B.S. (Ed.) ...	April 1910 ...	Address unknown.
Atkins, L. G., N.D.H.	Oct. 1931 ...	59, Cranwick Road, Lincoln.
Attwood, C. A.	Sept. 1950 ...	Parks Dept., Portsmouth and 28, Central Road, Drayton, Portsmouth.
*Aubrey, A. E.	April 1910 ...	The Woodhouse Gardens, Grange Road, Tettenhall, Wolverhampton.
Avery, Edwin	Feb. 1946 ...	59, Clarendon Drive, Putney, S.W.15.
*Aves, J. J.	Aug. 1939 ...	District Supt., P.O. Box 1454, Parks Dept., Pretoria, S. Africa.
Bachelor, Philip L.	Mar. 1935 ...	Supt. of Playing Fields, Nottingham County Council.
Badgery, R.	Aug. 1906 ...	47, King's Ash Road, Paignton, Devon.
*Baggesen, Niels	Dec. 1900 ...	Viborg, Pembury, Tunbridge Wells, Kent.

general nature transacted. The Annual General Meeting shall be followed by a tea.

- 10—There shall be a voluntary Benevolent Fund for the purpose of helping Kewites who may be in urgent need of pecuniary assistance.
- 11—Unpaid volunteer Students shall be eligible for Associate Membership of the Guild, provided always that they have paid a minimum life subscription of £3 3s. 0d. (payable in advance) entitling them to such privileges as detailed in Rule 7, and have completed not less than 12 months' service at Kew.
- 12—The Rules shall not be altered except by a two-thirds majority at the Annual General Meeting. Any proposals for the alteration of Rules shall be sent to the Secretary in writing at least twenty-one clear days before the date of the Annual General Meeting, and shall be sent by him to members resident in the United Kingdom at least seven clear days before the date of the Annual General Meeting.



From
Bellis perennis



to
Pieris brassicae . . .

Wise gardeners choose

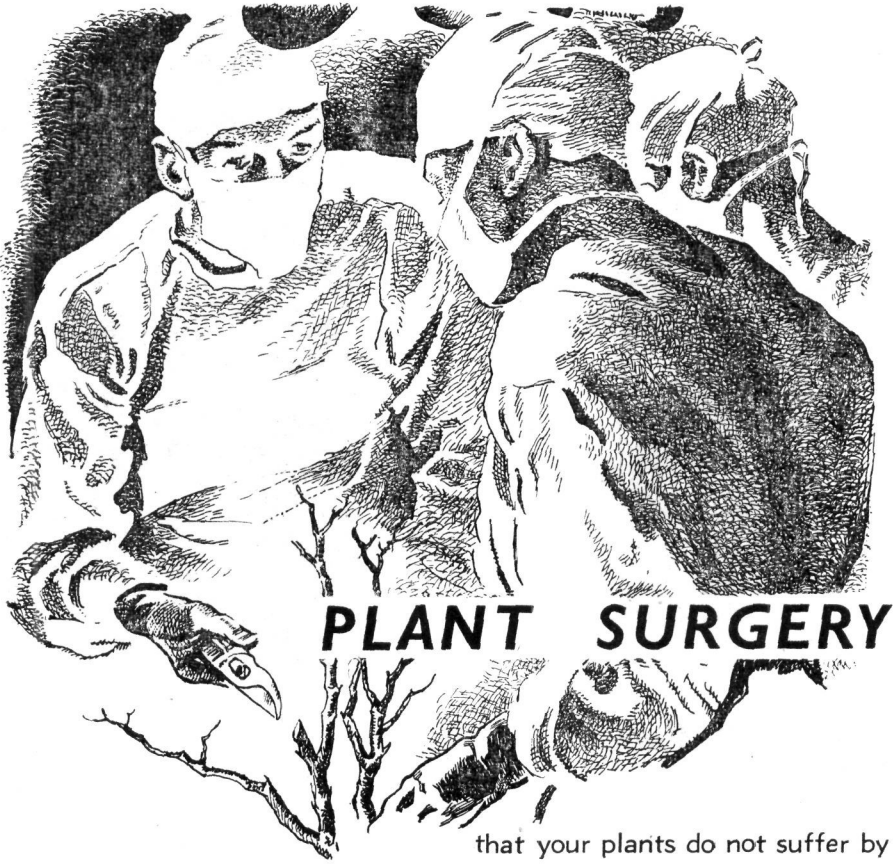
SHELL GARDEN SPRAYS

The range includes SHELL WEED-KILL for lawns,
SHELL LIQUID DERRIS and SHELL DDT insecticides,
SHELL COPPER FUNGICIDE and
a growth-regulator for tomatoes.



Shell Chemicals Limited
(DISTRIBUTORS)

Norman House, 105-109 Strand, London, W.C.2



PLANT SURGERY

Plants are living things. Pruning is an operation that must be carried out with all the care of a surgical operation, otherwise irreparable damage will be done. For this important "plant surgery" you cannot afford to use inferior instruments. Wilkinson Sword Pruners, forged from the finest Swordsteel by craftsmen of unrivalled skill, cut with clean, surgical precision and so ensure

that your plants do not suffer by tearing or "bleeding." Wilkinson Sword Pruners are exceptionally comfortable in use while their rust-resisting blades will give you long and efficient service. Ask your local stockist to show you the full range of Wilkinson Sword Pruners. Prices 12/6 to 25/-.

WILKINSON

SWORD
PRUNERS

THE WILKINSON SWORD CO., LTD., OAKLEY WORKS, ACTON, LONDON, W.4



Broad Walk in early Autumn—
a familiar nostalgic scene along which
many millions have had a first glimpse
of the Royal Botanic Gardens.

All these famous paths and drives
at Kew have to withstand much hard
wear. They are made with Coldcoat,
an easily applied bitumen emulsion,
which, when used with stone chip-
pings, gives a distinctive and durable
surface to any path or drive.

Coldcoat

FOR SURFACING PATHS & DRIVES

Write for booklet to—

BERRY WIGGINS & CO., LTD. (Telephone: HOLborn 0941)

FIELD HOUSE BREAMS BUILDINGS FETTER LANE LONDON, E.C.4

*To surface paths, simply
pour Coldcoat from drum
or water can, spread with
broom and cover with
chippings. Result is a
clean waterproof surface,
free from dust and mud,
which will last many
years without any main-
tenance.*

BARR'S

A Name famous since 1860

FOR THE BEST STRAINS OF

BULBS, PLANTS & SEEDS

Awarded "The Sherwood Cup," most coveted prize of the Chelsea Show; over 250 Gold Medals; many other Challenge Cups at shows throughout the Country for exhibits of outstanding merit.

BULBS

FOR THE FLOWER
GARDEN and INDOOR
CULTIVATION

Catalogue
published
in August

PLANTS

HARDY PERENNIALS
ROCK PLANTS and
SHRUBS

Catalogue
published
in February

SEEDS

BULBS FOR SPRING
PLANTING and
GARDEN REQUISITES

Catalogue
published
in January

CATALOGUES SENT FREE ON REQUEST

The name of "Barr" stands supreme in the Gardening World and carries a guarantee of quality and service. Established 90 years ago, the same proud tradition is still maintained, which ensures unqualified results from all products supplied.

BARR & SONS

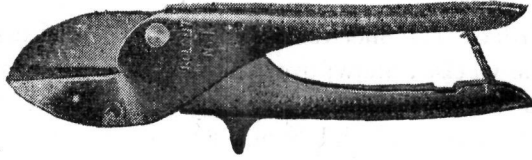
**11, 12 & 13, King Street, Covent Garden,
LONDON, W.C.2**

Telephone: TEMPLE BAR 4510

Telegrams: BARR, LONDON

ROLCUT SECATEURS

*"Make light work of the toughest
pruning job"*



No. 1.	STANDARD MODEL.	RETAIL PRICE	14/-
No. 2.	MAJOR MODEL	„ „	21/-
No. 4.	SNAGGER MODEL	„ „	14/6
No. 5.	BABY MODEL	„ „	12/6
No. 9.	WITH WIRE CUTTER	„ „	15/6
No. 8.	TREE PRUNER, 30in. (Wood Handles)		40/-
No. 8A.	TREE PRUNER, 30in. (Alum. Handles)		40/-
No. 6.	LONG-ARM TREE PRUNER		
	LENGTH 6ft.	RETAIL PRICE	40/-
	LENGTH 3ft.	„ „	37/6
No. 14.	Lightweight BUSH PRUNER, 20in.		28/-

Illustrated pamphlet sent on request

ALL PARTS REPLACEABLE

Obtainable at all first-class Ironmongers, Nurserymen, Seedsmen and Stores
ROLCUT, 9-11, Lonsdale Road, Kilburn, London, N.W.6.

Telephone - - MAIDA VALE 5053

LABELLING

WITH

PINNER PLANT LABELS

The Plastic Labels that really do last and can be permanently marked.

AND

GARDEN RECORD KEEPING

That can be carried out easily yet efficiently, providing a complete history of plants and crops.

ALSO

JOHN INNES COMPOSTS

Manufactured strictly to formula in large or small quantities. Ready for use.

WE ALSO SUPPLY—

MANY OTHER SPECIALISED COMPOSTS

Our recently issued Booklet "Composts for all crops," together with Illustrated Lists, will gladly be sent on receipt of 2½d. stamp to cover cost of postage.



E. J. WOODMAN & Sons

NURSERYMEN - SEEDSMEN - FLORISTS

Established 1891

High Street, Pinner, Middx.

Telephone _____ PINNER 802 (7 lines)

COUNTRY LIFE BOOKS

SUPERBLY PRODUCED — AUTHORITATIVE — PROFUSELY ILLUSTRATED

HEDGES, SHELTERBELTS AND SCREENS

A. D. C. Le Sueur

A comprehensive new work dealing with garden hedges, agricultural windbreaks and large scale lay-out of trees and hedges. 28 photographs ... 15s. net

COMMERCIAL GLASSHOUSE CROPS

W. F. Bewley

The lifetime's experience of the Director of the most important research station for the glasshouse industry. "The standard authority."—*Nurseryman and Seedsman*. 122 photographs ... 50s. net

CLEMATIS

Ernest Markham

"It is, and will long remain, the standard book on the Clematis family."—*Guild Gardener*. 26 photographs ... 18s. net

CAMPANULAS

H. Clifford Crook

The first up-to-date account of every known or recorded species of Campanula. "A helpful and informative work."—*R.H.S. Journal*. 99 photographs ... 35s. net

GENTIANAS

David Wilkie

Every species of Gentian is described in detail. "This book is unique and indispensable."—*R.H.S. Journal*. 95 photographs ... 25s. net

TREES IN BRITAIN AND THEIR TIMBERS

A. L. Howard

A detailed study of the beauties, history and uses of trees grown in the British Isles. "Will appeal to all who love trees."—*Gardener's Chronicle*. 87 photographs, many drawings ... 25s. net

LILIES OF THE WORLD

Woodcock and Stearn

A comprehensive guide to these fascinating plants. "An indispensable work of reference."—*Gardener's Chronicle*. 96 photographs ... 35s. net

THE CARE AND REPAIR OF ORNAMENTAL TREES

A. D. C. Le Sueur

"All the problems that arise in the care and preservation of trees are squarely met."—*R.H.S. Journal*. 41 plates, 5 drawings ... 18s. net

WATER GARDENING

Frances Perry

Advice on pond construction, propagation, planting and the design of water gardens. "The standard work."—*The Aquarist*. 94 photographs ... 21s. net

ORNAMENTAL CHERRIES

Collingwood Ingram

"An entertaining book and an invaluable work of reference."—*Gardener's Chronicle*. 8 colour plates. 32 photographs ... 30s. net

SHRUBS FOR THE Milder COUNTIES

W. Arnold-Forster

"An inexhaustible mine of knowledge . . . in 376 pages of delight you will get good value for your money."—*Guild Gardener*. 40 photographs ... 30s. net

ALPINE HOUSE CULTURE

Gwendolyn Anley

Fully describes the cultivation of rock plants and advises as to the best species to grow. . . . "An excellent publication."—*Nurseryman and Seedsman*. 49 photographs ... 15s. net

THE FLOWERING SHRUB GARDEN

Michael Haworth-Booth

"A satisfying and handsome book, full of sound advice based on long experience."—*Gardener's Chronicle*. 15 coloured plates and 32 photographs. ... 25s. net

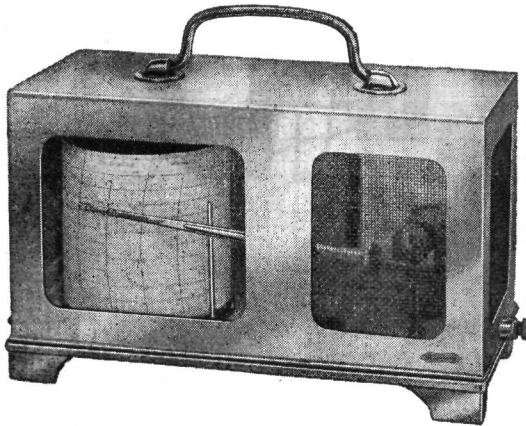
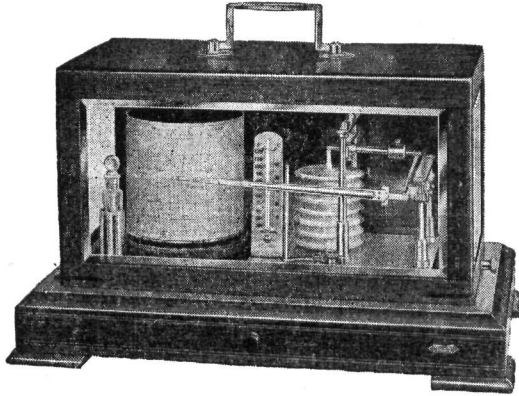
Obtain these titles from your Bookseller or Library.

Complete Catalogue on request.

2-10 TAVISTOCK STREET, COVENT GARDEN, LONDON,
W.C.2



Barographs and Thermographs



*We specialise in the manufacture of Meteorological and
Temperature Indicating and Recording Instruments.*

DESCRIPTIVE LITERATURE SENT UPON REQUEST

Heath, Hicks & Perken (THERMOMETERS) Ltd.

(Associated with W. F. STANLEY & Co., Ltd.)

NEW ELTHAM, LONDON, S.E.9

Phone: Eltham 3836.

Grams: "Optimus, Souphone," London

Showrooms: 8, HATTON GARDEN, LONDON, E.C.1

(Phone: Holborn 1743)

DESTROY PLANT PESTS

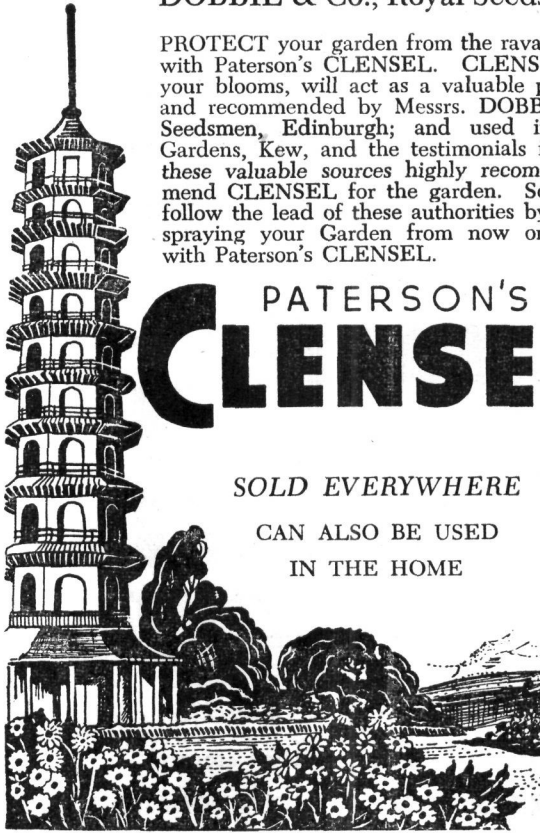
IN THE SAME WAY AS

The ROYAL BOTANIC GARDENS, KEW

and

DOBBIE & Co., Royal Seedsmen, Edinburgh

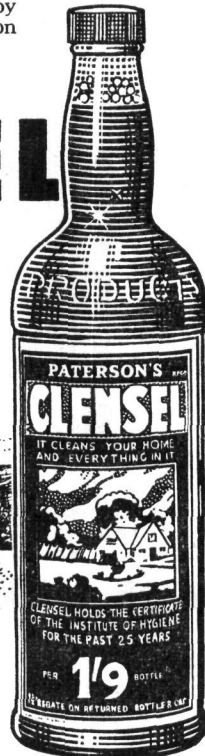
PROTECT your garden from the ravages of Greenfly—spray with Paterson's CLENSEL. CLENSEL, besides protecting your blooms, will act as a valuable plant food. It is used and recommended by Messrs. DOBBIE & Co., The Royal Seedsmen, Edinburgh; and used in the Royal Botanic Gardens, Kew, and the testimonials in our possession from these valuable sources highly recommend CLENSEL for the garden. So follow the lead of these authorities by spraying your Garden from now on with Paterson's CLENSEL.



PATERSON'S
CLENSEL

SOLD EVERYWHERE

CAN ALSO BE USED
IN THE HOME



Manufactured by—

JOHN PATERSON & CO., LTD.,

CLENSEL WORKS, ORR STREET,

GLASGOW, S.E.

PERRY'S of ENFIELD

Growing since 1890

RARE BULBS

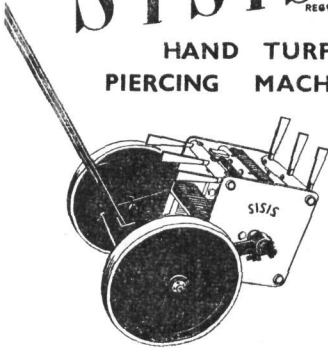
**HERBACEOUS PLANTS : ALPINES
WATER LILIES and AQUATIC PLANTS**

Catalogues on application to

PERRY'S HARDY PLANT FARM ENFIELD

"SISIS" REGD

**HAND TURF
PIERCING MACHINE**



This machine is quickly adaptable for hollow, slitting or solid tining. Made in two sizes for one or two operators

TURF MAINTENANCE EQUIPMENT

The following Brochures are available free on request:—

- Ref.
491. Bulletin.—"SISIS" AER-DRAIN Forks.
HH6. Bulletin.—"SISIS" Hoe Heads.
151. Brochure.—"SISIS" Hand Machines and Tools.
151a. Brochure.—"SISIS" Hand Machines and Tools.
351. Brochure.—"SISIS" Mobile Municipal Equipment, Trailer Combine.
250. Brochure.—"SISIS" Heavy Duty Piercing-for-Drainage Machines.
449. Brochure.—"SISIS" Power Drawn Rollers.
551. Brochure.—"SISIS" Equipment for Motor Mower Draught.
651. Brochure.—"SISIS" Tractor Drawn Piercing, Raking and Brushing Machines.
751. Brochure.—"SISIS" Spiker-Slitter.
851. Brochure.—"SISIS" Adjustable Ballasted Hand Roller.
951. Brochure.—"SISIS" Turf Piercing Machine for attachment to Ransomes Overgreen Power Unit.
SB.22. Bulletin.—"SISIS" Brushing Attachment for Ransomes Overgreen Power Unit.
AM/51. Brochure.—"RANSOMES-SISIS" AERO-MAIN.
SB.23. Bulletin.—"SISIS" AERO-CART for the "Ransomes-Sisis" Aero-Main.

W. HARGREAVES & CO LTD
CHEADLE CHESHIRE Phone GATley 2429

L. R. RUSSELL LTD.

ESTABLISHED 1802

have pleasure in offering the following—

- **Choice Trees, Shrubs and Climbers**
A collection comprising most of the better and worth while varieties, many of recent introduction.
- **Fuchsias**
A collection of 70 of the very best varieties including many new sorts.
- **Greenhouse Flowering & Decorative Plants**
For greenhouse and room culture.
- **Seeds, Bulbs and Bedding Plants**
These can be seen, during the appropriate season, at our London Branch.

Descriptive Catalogues of the above sent on application.

RICHMOND NURSERIES, WINDLESHAM, SURREY
TELEPHONE ASCOT 780 STATION SUNNINGDALE

London Branch—

410-414, UPPER RICHMOND ROAD, EAST SHEEN, LONDON, S.W.14
Telephone: PROspect 3912

“CRAVEN” HIGH PRESSURE SPRAYERS

for use in Orchards and Gardens

We specialise in building outfits to suit customers' requirements. Send for leaflets of the

“HYDRAULUX” 3-ram Power Outfits

“HYDRAULUX” 2-ram Power Outfits

These Pumps can be driven by Petrol Engine, Electric Motor or fitted with Flexible Couplings for Tractor Power take-off

We can supply all spraying accessories including: Spray Guns, Lances, Booms, Nozzles, High Pressure Hose, etc.

“CRAVEN” SUMMER PRODUCTS

For Crops in the open and under glass, including—

D.D.T. Compounds; “BENEX 50” Wettable B.H.C.; “MYCOL” Colloidal Copper; “AVON” Colloidal Sulphur; “PETH 20” and “PETH 40” H.E.T.P. and T.E.P.P. Products; “PETHANE 20” Parathion Compound; “BELUMNITE” Nicotine Dust; FLEABEETLE DUSTS 2½% and 5%; Insecticides and Fungicides for Summer use.

Full particulars apply—

W. J. CRAVEN & CO., LTD.

SPRAYING MACHINE MAKERS

E V E S H A M

Phone: 6138

Gram: CRAVEN 6138

TURF LOAM

FINEST SURREY

STERILIZED SOILS AND COMPOSTS

To JOHN INNES FORMULA

PARTICULARS FREE

JOHNSTON BROS., New Park, Cranleigh

SPRAYING EQUIPMENT OF ALL TYPES, FOR ALL PURPOSES

SMALL HAND SPRAYERS

KNAPSACK SPRAYERS

WHEELED SPRAYERS

BUCKET SPRAYERS

POWER SPRAYERS

Write for Fully Illustrated Catalogue

The Four Oaks Spraying Machine Co., Ltd.

FOUR OAKS, SUTTON COLDFIELD

Telephone - - - - - FOUR OAKS 305 and 1560

Use organic fertilisers:

Plucrop (Regd.)

pure blood and bone scientifically balanced
and

Lobin (Regd.)

pure soluble blood flake for liquid manure

Send for descriptive booklet.

Sole Manufacturers—

MIDLAND CATTLE PRODUCTS LTD.,
BIRMINGHAM, 5.

Tel.: ENFIELD 1001 and 2707

Telegrams: ORCHIDS, ENFIELD

STUART LOW CO.
Bush Hill Park, Enfield, Mx.

LEADING SPECIALITIES—

ORCHIDS

Many Houses at our Sussex Nursery, Jarvisbrook, Crowborough, Sussex, and our Nursery on the Great North Road, Hatfield, Herts.

CARNATIONS

Raisers of many fine varieties, including Winston Churchill.

ROSES

Most of the old favourites and the best novelties.

FRUIT TREES

for Orchards and Plantations. Peaches, Nectarines, Apricots (grown at the Kent Nursery). Also Walnuts, Mulberries, Vines, Figs and Oranges, grown at Enfield.

CHOICE CONIFERS AND FLOWERING SHRUBS
GREENHOUSE PLANTS

(including Camellias) of many kinds. HIPPEASTRUMS
("Amaryllis") of our fine Chelsea Strain. AUSTRALIAN SHRUBS.
NEW CYCLAMEN.

BY
APPOINTMENT



NURSERYMEN AND
SEEDSMEN TO
H.M. QUEEN ELIZABETH,
THE QUEEN MOTHER

HILLIER & SONS

for
Trees and Shrubs

Growers commercially of the greatest number of species and varieties hardy
in the temperate regions.

also

HERBACEOUS AND ALPINE PLANTS.

BULBS

ROSES (including Species and Old-fashioned varieties)

FRUIT TREES.

SUMMER BEDDING & GREENHOUSE PLANTS.

SEEDS & GARDEN SUNDRIES.

Please ask for those catalogues in which you are interested.

HILLIER & SONS - - WINCHESTER

ESTABLISHED 1823

Telephone : ADDISCOMBE 1026

South London Horticultural Stores



BY APPOINTMENT to THE LATE KING GEORGE VI.

SUPPLIERS OF HORTICULTURAL CHEMICALS

H. SCOTT & SONS

WOODSIDE, S.E.25

Yellow Loam, Weed Killers, Fertilisers and
Insecticides

THE GREAT BRITAIN
REGISTERED TRADE MARK
OF THE
MILNER PATENT



HILLIER & SONS

Trees and Shrubs

Complete catalogue of the finest and most valuable plants
for the garden and conservatory

HERBACEOUS AND ALPINE PLANTS

ROSES

ROSES, including double and single varieties

FRUIT TREES

STRAWBERRY PLANTS & GREENHOUSE PLANTS

SEEDS & CANNON SEEDS

Please see for these catalogues in which you are interested

HILLIER & SONS WINCHESTER

Telephone ADDISCOMBE 1026

ESTABLISHED 1819

South London Horticultural Stores
BY APPOINTMENT TO THE KING GEORGE VI



DEPT. OF HORTICULTURAL CHEMICALS

H. SCOTT & SONS

WOODSIDE, S.E.25

Yellow Foam, Weed Killer, Fertilisers, and

in the