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THE
JOURNAL
OF THE
KEW GUILD

AN ASSOCIATION OF
MEMBERS OF THE KEW STAFF
PAST AND PRESENT

1957

LIST OF OFFICERS

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(To whom all remittances should be addressed)

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

Members of Committee:

Retire 1958

A. BROOKS, *London.*
C. E. CHERRY, *Sutton.*
Major G. COOK, *France.*
V. S. SUMMERHAYES, *Kew.*

Retire 1960

E. NELMES, *Kew.*
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Retire 1959

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S. A. PEARCE, *Kew.*

Retire 1961

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F. EUL, *Bexley Heath.*
T. A. ARNOLD, *Johannesburg.*
J. R. SEALY, *Kew.*

Student Gardeners' Representatives:

T. F. RISELY and R. JOHNSON.

Hon. Auditor: A. WOODWARD.

EDITORIAL



The founders of the Guild ruled that a journal should be produced annually. How wise for an organisation whose members have a world-wide distribution. For many, this annual publication serves as a vital link with "far-off Kew" and with the distant associates, but it is also the "headquarters" link with its members both near and far.

Once it is acknowledged that the Journal is a vital part of our organisation, it surely follows that the higher the standard of this publication the better is this purpose served. "The higher the standard"—what do we mean by this? Should the Journal be filled with highly technical details of research and experiment? All will answer with a very loud and emphatic "No!" What then is the criterion for high quality? The answer must be that each and every member should find the Journal interesting reading. All that is needed is a simple record of the activities of present and Old Kewites, and of happenings at Kew during the past year, together with sound and interesting articles. How simple—and yet how difficult, for information cannot be printed unless it is received. So the responsibility for the quality of the Journal finally settles upon each individual member.

It may be argued that our financial status also affects the quality of the Journal—again, each individual's responsibility. "Ah!—the prompt payment of subscriptions on January 1st." Yes, but what of our advertisers? We support them but are they always made aware of this? The responsibilities for the quality of the Journal and, indeed, of the welfare of the Guild as a whole settles firmly upon the ever willing shoulders of each member.

As in the past, so in the future, let us then pull together and shout with one accord—"Floreat Kew."

GEORGE WILLIAM ROBINSON.

George William Robinson was born in North Lancashire. His father, a head gardener, was a keen exhibitor and at an early age our President assisted in the preparation of show specimens. His first experience of bothy life was at the age of fifteen in the gardens of Brackenburgh Towers, between Penrith and Carlisle.

The next chapter opened during the First World War. He joined an East Lancashire Battalion and, before the age of nineteen, saw active service on the Ypres front as a Lewis Gunner. He was brought back to England in 1918 after being wounded by mortar fire.

Upon demobilisation our President worked at Pyrford Court under W. Auton, a noted Kewite. He assisted in replanting the famous colour borders which followed the plans in Gertrude Jekyll's book, *Colour in the Flower Garden*. Later, Mr. Robinson joined the Imperial War Graves Commission and took part in constructional work in France and Belgium. During this period he served under three Kewites, A. B. Melles, R. Kett and E. M. Biggs.

Entering Kew as a student in 1922, our President started work in the Palm House, later moving to the Tropical Pits and to House No. 5 before rising to the position of sub-foreman in the T-Range.

In 1924, a few weeks after being married, he was outward bound for South America, to take charge of constructional work at Valparaiso. This work, complicated by irrigation problems, entailed the laying out of an estate on English lines. He took a great interest in the Chilean Flora and in later years wrote a series of authoritative articles on the plants of garden value which are to be found in those regions.*

Among the plants which our President collected was *Mutisia subulata*. Despite the great difficulty of finding good seeds owing to the ravages of the larvae of a small beetle, he found sufficient for a packet of seed which he sent to T. Hay of Hyde Park. A number of plants were successfully raised and, in the year following, one was presented to Kew. A few years later this plant provided material for the plate in *Curtis's Botanical Magazine*—T 9461. This species was first flowered in this country in 1930 from a plant which our President brought home in 1929.

Mr. Robinson was abroad for five years, and shortly after his return he became Head Gardener to the London Underground. His work with this authority entailed the establishment of a nursery in addition to a considerable amount of pioneer work connected with the choice of suitable plants for embankment planting. The importance of this post increased as the London Transport Executive came into being.

With such a wide and rich experience and with his capabilities proved beyond all doubt, our President returned to Kew as an

Assistant Curator in January, 1931. During his first stay at Kew he had served under two Curators, first W. Watson and then W. J. Bean. He returned when T. W. Taylor was Curator but, owing to his sad death in the same year, the President worked under yet another Curator, J. Coutts.

In 1937 our President took charge of the Chelsea Physic Garden, having succeeded the late W. Hales, a Kewite of considerable repute. Remaining in this post until 1942 he was responsible for these famous gardens during some of the worst "blitz" periods of the Second World War. He is thus able to recall the night of the 10th May, 1941, when the explosion of a land-mine within the vicinity of the Garden caused the whole of the glass to be completely shattered. Fortunately Kew was able to house most of the valuable plants. During these early war years Mr. Robinson took part in local Civil Defence work, in addition to regular fire watching in the Gardens.

The next move was in 1942 when our President became Curator to the University Botanic Garden at Oxford. In this wonderful old garden, the oldest Physic Garden in Britain, our President has been able to apply his knowledge and skill to the full. The Associateship of Honour was conferred upon him by the R.H.S. in 1946, whilst in 1952 he became an Associate Member of the Linnean Society.

The adventurous outlook which our President has on life is surely reflected in the advice he gives to the young man who has an opportunity to travel—it is always to "take it." Surely it is also true that this outlook has carried Kewites to their present renowned position, an outlook which we trust will be common also among Kewites of the future.

* "Some Chilean Plants Cultivated in Britain."—*Journal of the Royal Horticultural Society*, Vol. LXXV, Parts 4, 5, 6 and 7 (1950).

"An English Gardener in Chile."—*Gardeners' Chronicle*, Part 2 (1929).

ANNUAL GENERAL MEETING, 1957.

The Annual General Meeting of the Kew Guild was held in the Iron Room at 3 p.m. on Saturday, August 31st, 1957. The President, Mr. C. E. Hubbard, took the chair with over 70 members present. The notice of Meeting having been approved, the Secretary read the minutes of the last Annual General Meeting which were agreed.

The Meeting then considered the Committee's report dealing with the activities of the year, and also certain nominations for office for the forthcoming year. The report was adopted without comment, in view of the fact that practically all the items were to be discussed later in the agenda.

The election of officers then took place and on the recommendation of the Committee it was moved by Mr. Blackburn and seconded by Mr. Lavender that Mr. G. W. Robinson be elected President for 1957-58. The President spoke in praise of the work

done by Mr. Robinson and there being no further nominations his name was submitted to the meeting and carried unanimously. There being four vacancies falling due on the committee and a one year period vacancy due to the retirement of Mr. E. Nemes, the committee had proposed the names of Messrs. A. Woodward (Richmond), F. Eul (Bexleyheath), T. A. Arnold (Johannesburg), J. R. Sealy (Kew) and Mr. F. G. Harcourt for the latter one year period. The names were submitted to the Meeting and on the proposal of Mr. Sillitoe, duly seconded, these names were approved unanimously.

The Hon. Secretary, Hon. Treasurer and Editor of the *Kew Guild Journal* were then re-elected, whilst the name of Messrs. Johnson and Riseley were approved as Student Gardeners representatives. Mr. A. Woodward was invited to serve as auditor for the coming year.

The balance sheet for 1956, already published in the *Journal*, was adopted on the motion of Messrs. Stock and Eul, whereupon the Hon. Treasurer placed before the members the financial statement to date. This showed the various funds of the Guild to be in quite a strong position and the only deficit, which was a small one of £1 2s. 6d., arose over the Annual Dinner. Two students had been successful in passing the N.D.H. Final Examination and their entrance fees totalling 14 gns. had been refunded out of the Watson Educational Fund. The members expressed their appreciation of the changed financial conditions of the Guild and of the excellent work which the Hon. Treasurer carried out year by year.

The Editor of the *Kew Guild Journal* dealt briefly with the previous publication and also the plans made for the next. The difficulties experienced were raised and great satisfaction was expressed at the continued high standard of the publication which it was hoped could be maintained.

In compliance with the Rules a proposed alteration had been submitted by F. Flippance, seconded by Mr. C. E. Hubbard, and this circulated to all members prior to the Annual General Meeting. This suggested that the officers of the Guild should include amongst others, two Vice-Presidents, one of whom would retire annually. The mover and seconder spoke at some length of the advantages of the proposal, and after a number of members had expressed their views the suggestion was put to the Meeting and upon a vote being taken was carried.

Under any other business little of importance arose though the question was raised of the unfortunate lack of enthusiasm for the Annual Match between the present staff and the Old Boys Cricket Teams. Before the Meeting closed at 4.20 p.m. the President asked members to stand in silence in memory of those Kewites who had passed away since the last Annual General Meeting. Finally, he gave thanks to the Officers and Committee of the Guild for the excellent work which they had done during his period of office.

ANNUAL DINNER, 1957.

The Annual Dinner was held on 22nd May, 1957, at the Windsor Castle, Victoria, London, S.W.1; 157 members and guests attended. After a good meal, which included roast chicken, the toast of Her Majesty the Queen was proposed by the President, Mr. C. E. Hubbard. This was followed by the toast to our President proposed by Mr. W. Howell, who had known the President since boyhood days. He related his experiences when he worked with Mr. Hubbard at Sandringham. Mr. Howell described how the President had joined the Royal Flying Corps, and that it was not until 1922 that they met again. He was a very popular and happy student at Kew, and thoroughly enjoyed himself on the cricket field. It came as a surprise to many, when he decided to leave the glamour of the living garden for the Herbarium, but there can be no doubt that he was very wise in his choice. Although of a modest nature, he has by his industry achieved world fame, and brought credit to Kew.

In response the President thanked Mr. Howell for his kind remarks. After describing the choice fruits which they grew at Sandringham, he drew a comparison between Mr. Howell and himself; while the former at present flourishes on the rich young green grass at Beckenham, he himself derives nourishment indirectly from the dried and often musty grasses of the Herbarium. He finally thanked members most sincerely for the great honour which they had bestowed upon him, in electing him President for 1957.

Before proposing the toast of the Kew Guild, the President expressed the delight of all at having our new Director, Dr. George Taylor, with us, and he remarked with pride that we had retained one of Edinburgh's most famous sons in our midst, despite the fact that they were also having an Annual Dinner in London, at the same time. He wished both Dr. and Mrs. Taylor many, many years of happiness at Kew. In giving his views and memories of Kew and Kewites, he stated that many of his old friends were scattered far and wide, many too far distant to be with us on that occasion. He went on to say that Kewites are to be found in 54 countries including four behind the Iron Curtain. The highest number overseas was still in the United States where 58 had made their homes. South Africa has claimed 35, several of whom were present at the Dinner. There were 23 Kewites in Canada, 22 in New Zealand, 14 in Kenya, and only 12 in the vast Australian continent. He saw no reason why Kewites should not prosper in Australia, and remarked on the splendid openings for men of courage, determination and ability both in this and other parts of the Commonwealth.

He described when he first came to the Gardens at the time when a wealth of plant material was arriving from the East. His early experiences at Kew also included work in the Temperate House. Under the renowned Mr. C. P. Raffill he was involved in the re-organization of that department. After many amusing stories

he finished by expressing the gratitude of all to those who had arranged such an enjoyable evening, especially to Mr. Campbell and Mr. Stenning. He also commended the dinner menu illustrated by Mr. Atkinson with an attractive drawing of the Herbarium. Mr. Stenning received a special mention by the President for his 25 years of conscientious service to the Guild. He had guided them through many difficult periods, and the Guild's success was chiefly due to his belief in its future. The toast of the Kew Guild was proposed with the hope that its success and prosperity be even greater in the future than in the past, and that it may long foster the spirit of good companionship and adventure among Kewites of all ages.

The first presentation was made to Mr. E. Curtis for his very excellent work as Editor of the Journal during 1954/55/56. He received a copy of Thornton's *Temple of Flora*. The Students' prizes were then presented to the following:—

Matilda Smith Memorial Prize—Mr. J. Flemming.

Dümmer Memorial Prize—Mr. R. S. Thomas.

The Proudlock Jubilee Prize—Mr. A. Paterson.

The Hooker Prize—Mr. D. J. Sales.

C. P. Raffill Prize—Mr. D. W. Messenger.

Mutual Improvement Society's Prize—Mr. A. Paterson.

Dr. G. Taylor proposed the toast to our guests, who were the Hon. David Bowes-Lyon, Mr. H. Hillier, Mr. D. Sanders and Dr. Hopkins. In response the Hon. David Bowes-Lyon thanked members for their delightful hospitality and related that although he was not eligible to be present as a Kewite, he had worked at Kew for one year in the Arboretum Nursery.

Mr. W. M. Campbell, Secretary, then called for a special welcome for those Kewites who were present at the Dinner from overseas.

After the dinner, members broke up into informal groups, and called to mind their past days at Kew.

THE ASSOCIATION OF KEW GARDENERS IN AMERICA, INC.

(Founded 1916)

The Annual Meeting was held Wednesday, April 3rd, at 3 p.m. in the Members Room of the Museum Building at the New York Botanical Garden, Bronx, New York. We were welcomed by Mr. A. Pfander, Administrator of the New York Botanical Garden. Mr. Henry Downer presided over the meeting and thanked Mr. Pfander for arranging for the meeting place and refreshments for us. He also welcomed the following old Kewites; Samuel Bridge, Stephen Cutting, Montague Free, William Ing, Joseph Rierden and Howard Swift.

The first business was the election of a new Secretary-Treasurer to fill the place vacated by Mr. Archie Thornton. Mr. Downer expressed his thanks for Mr. Thornton's years of service to the Association. Stephen Cutting was elected to fill the vacancy. Since this was our first regular meeting to be held in New York in several years, plans were discussed to resume our annual dinner meeting during the International Flower Show week in 1958. Letters were read from many members in the United States and Canada who were unable to be with us because of distance. We will continue our present practice of sending a yearly letter to all of our members.

We were sorry to learn of the passing of our member James Lambert in Florida. Mr. Lambert was well known to most of our older members.

The latter part of the meeting was given over to talking about old times at Kew and about the personalities we came to know while we worked and studied there. When the meeting adjourned we felt that it was an afternoon well spent and we are all looking forward to a larger gathering in 1958.

STEPHEN G. CUTTING, 1957, *Secretary-Treasurer*.

KEWITES AS AUTHORS OR CO-AUTHORS

Stella Ross-Craig—"Drawings of British Plants" Part X. (Saxifragaceae, Crassulaceae). Bell. 1957. 8s. 6d.

E. Marsden Jones and W. B. Turrill—"The Bladder Champions." Ray Society. 30s.

R. A. Graham—"Flora of Tropical East Africa." Crown Agents. London. 1957.

S. A. Pearce—"Climbing and Trailing Plants." W. H. & L. Collingridge Ltd. 25s.

W. M. Cambell—contributed the Cultural Notes and the Introduction to "Tropical Plants and their Cultivation" by L. Bruggeman. Thames and Hudson. 1957. 63s.

S. A. Pearce—"Hedges and Screens"—revision of R.H.S. pamphlet by the late Mr. J. Coutts. 1s. 3d.

A. Osborn—"Pruning Hardy Shrubs"—R.H.S. pamphlet (revision). 1s. 3d.

R. Sudell and D. Tennyson Waters—"Sports Buildings and Playing Fields." Batsford. 63s.

A. Beer—"Die Erfolgreiche Zimmerpflanzen Kulture." Universitätsverlag. Wagner. Innsbruck.

H. Abbott—"A Bouquet of Wild Flowers." Text by J. Hutchinson. Bruce and Gawthorn. 1957.

A. W. Anderson—"Plants of the Bible." Crosby Lockwood. 21s.

G. R. Groves—"Trees, Shrubs, Palms and Succulent Plants."
Department of Agriculture, Bermuda. Bulletin No. 26, 3rd Edition.
1956.

D. J. Moore—"Suggestions for the Planting of Trees, Shrubs
and Palms." Department of Agriculture, Bermuda. Bulletin
No. 29, 1st Edition.

H. M. MARSHALL.

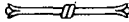
* * *

Overheard at Kew.—Just inside the Main Gate and of
Aesculus indica in fruit.

Son—"Look at the apples, Mummy."

Mum—"They're pears, aren't they, Bert?"

Dad—"No. They look like figs to me."



KEW GUILD GENERAL ACCOUNT, 1957

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1956 a/c	263 1 11	Printing the 1956 Journal, 1,000 Copies including composition, etc.	249 10 0
Annual Subscriptions and Arrears	104 5 2	Five H.T. Blocks and 1,000 Man- illa Envelopes	13 5 9
Donations	8 11 0	Presentation to E. W. Curtis— Book	6 6 0
Advertisements in 1956 Journal ...	112 2 2	Hon. Editor's and Hon. Treas- urer's Postages, including over- seas Journals	5 19 2
Dividends on £300 3% New South Wales Stock, £9, less Income Tax at 8s. 6d. in £, £3 16s. 6d.	5 3 6	Barclays Bank, Ltd.	10 4 0
Dividends on £26 6s. 3d. 3½% War Stock	0 18 4	Balance in Post Office Savings Bank	276 5 1
Dividends on £500 3% War Sav- ings, Sir A. W. Hill's bequest...	15 0 0		
Dividends on £295 3% Savings Bonds (Jubilee Fund)	8 17 0		
Dividends on £220 3½% Defence Bonds (Jubilee Fund)	7 7 0		
Dividends on £360 4½% Defence Bonds (Jubilee Fund)	14 0 8		
Dividends on £220 4½% Defence Bonds, W. H. Judd's bequest...	9 18 0		
Balance from sale of Christmas Cards	6 1 1		
Balance from Tea account	1 0 0		
Interest on Post Office Savings Bank	5 4 2		
	<u>£561 10 0</u>		<u>£561 10 0</u>

KEW GUILD CAPITAL ACCOUNT

LIABILITIES	£ s. d.	ASSETS	£ s. d.
Life Subscribers at £1 at half rate	75 0 0	£300 3% New South Wales Stock	300 0 0
Life Subscribers at £2 at half rate	109 0 0	£26 6s. 3d. 3½% War Stock ...	26 6 3
Life Subscribers at £3 3s. 0d. at half rate	173 5 0	£500 3% War Savings, Sir A. W. Hill's bequest	500 0 0
Life Subscribers at £5 5s. 0d. ...	31 10 0	£200 4½% Defence Bonds, W. H. Judd's bequest	200 0 0
Assets exceed Liabilities	1074 15 4	Valuation of Journals in Stock...	150 15 0
	<u>£1,463 10 4</u>	Barclay's Bank, Ltd.	10 4 0
		Post Office Savings Bank	276 5 1
			<u>£1,463 10 4</u>

WATSON MEMORIAL EDUCATIONAL FUND, 1957

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Balance from 1956 a/c	156 17 8	Refund of N.D.H. Examination fees to D. J. Sales	7 7 0
Dividends on £100 3½% War Stock	3 10 0	Refund of N.D.H. Examination fees to T. F. Risely	7 7 0
Interest on Post Office Savings Bank	3 16 7	Balance in Post Office Savings Bank	149 10 3
	<u>£164 4 3</u>		<u>£164 4 3</u>

(Assets—£100 3½% War Stock and balance in Post Office Savings Bank.)

MATILDA SMITH MEMORIAL PRIZE FUND

RECEIPTS		EXPENDITURE	
	£ s. d.		£ s. d.
Balance from 1956 a/c	33 0 8	Prize awarded to J. Fleming	2 2 0
Dividends on £50 3% Savings Bonds	1 10 0	Balance in Post Office Savings Bank	33 4 9
Interest on Post Office Savings Bank	0 16 1		
	<u>£35 6 9</u>		<u>£35 6 9</u>
(Assets—£50 3% Savings Bonds and balance in Post Office Savings Bank.)			

DÜMMER MEMORIAL PRIZE FUND

RECEIPTS		EXPENDITURE	
	£ s. d.		£ s. d.
Balance from 1956 a/c	52 1 1	Prize awarded to R. G. Thomas	3 3 0
Dividends on £70 4% Funding Loan	2 16 0	Balance in Post Office Savings Bank	52 19 6
Interest on Post Office Savings Bank	1 5 5		
	<u>£56 2 6</u>		<u>£56 2 6</u>
(Assets—£70 4% Funding Loan and balance in Post Office Savings Bank.)			

THE PROUDLOCK PRIZE FUND

RECEIPTS		EXPENDITURE	
	£ s. d.		£ s. d.
Balance from 1956 a/c	6 10 4	Prize awarded to A. Paterson	1 1 0
Dividends on £25 4% Funding Loan	1 0 0	Insurance premium on Tennis Curs	0 7 6
Interest on Post Office Savings Bank	0 2 9	Balance in Post Office Savings Bank	6 4 7
	<u>£7 13 1</u>		<u>£7 13 1</u>
(Assets—£25 4% Funding Loan and balance in Post Office Savings Bank.)			

THE BENEVOLENT FUND, 1957

RECEIPTS		EXPENDITURE	
	£ s. d.		£ s. d.
Balance from 1956 a/c	126 14 7	Donation of £5 5s. 0d. to Royal Gardeners' Orphan Fund	5 5 0
Refund from Mr. H. Collin	5 0 0	Donation of £5 5s. 0d.	5 5 0
Interest on Post Office Savings Bank	3 3 0	Balance in Post Office Savings Bank	124 7 7
	<u>£134 17 7</u>		<u>£134 17 7</u>

KEW GUILD WAR MEMORIAL FUND

RECEIPTS		EXPENDITURE	
	£ s. d.		£ s. d.
Balance from 1956 a/c	17 7 6	Nil	
Interest on Post Office Savings Bank	0 8 6	Balance in Post Office Savings Bank	17 16 0
	<u>£17 16 0</u>		<u>£17 16 0</u>

KEW GUILD JUBILEE PERMANENT SECURITY FUND

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Carried forward from 1956 a/c....	812 17 0	Invested—3% Savings Bonds ...	295 0 0
Donations from 86 members received and gratefully acknowledged	64 3 1	3½% Defence Bonds ...	220 0 0
	£877 0 1	4½% Defence Bonds ...	360 0 0
		Cash in hand ...	2 0 1
			£877 0 1

KEW GUILD DINNER, MAY, 1957 Held at the "Windsor Castle," Victoria

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
Sale of Tickets—		To The Westminster Wine Co., Ltd.—	
132 at 18s. 0d. each	118 16 0	157 Dinners at 15s. 6d. each ...	121 13 6
20 Students at 16s. 6d. each... ..	16 10 0	10% Service Charge	12 0 0
5 Guests	0 0 0	200 Menu Cards	2 2 0
Donation	0 12 0	Gratuity to Commissionaire... ..	1 5 0
Deficit	1 2 6		
	£137 0 6		£137 0 6

KEW GUILD TEA, AUGUST, 1957. Held at Kew

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
91 Members at 3s. 6d. each	15 18 6	To Messrs. John Gardner, Ltd.—	
9 Guests	0 0 0	92 Teas at 3s. 0d. each	13 16 0
	£15 18 6	To Dinner account	1 2 6
		Balance to General account	1 0 0
			£15 18 6

CHRISTMAS CARDS, SALES FOR 1957

RECEIPTS	£ s. d.	EXPENDITURE	£ s. d.
3,000 Cards sold at 4½d. each	56 5 0	4,000 Christmas Cards and envelopes, including block and purchase tax	44 2 10
	£56 5 0	To Students' Sports Club	6 1 1
		Balance to General account	6 1 1
			£56 5 0

Audited and found correct.

F. BALLARD

E. F. COWARD

Hon. Auditors.

MUTUAL IMPROVEMENT SOCIETY.

The Annual General Meeting was held on September 20th, 1957, with Mr. Pearce in the Chair. The following officers were elected for the year 1957/58 :—Chairman, Mr. G. E. Brown; Vice-Chairman, Mr. J. Souster; Hon. Secretary, Mr. A. Paterson; Hon. Assistant Secretary, Miss F. G. Floyer; Hon. Treasurer, Mr. H. Overeynder; Committee Members, Mr. A. J. Porter and Mr. D. Sales.

During the season 1956/57 thirteen members gave full papers and nine gave lectures. The average attendance was 34. The following establishments were visited during the year :—Cambridge Botanic Garden, Sheffield Park, Messrs. Rochford's Nurseries and Brighton Parks Dept.

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

The Hooker Prize—Mr. D. J. Sales.

The C. P. Raffill Prize—Mr. G. W. Messenger.

The Society's Prize—Mr. R. Paterson.

A debt of gratitude is owed by the Society to Mr. Pearce, our Chairman, and to Mr. Stenning, our Vice-Chairman, for their services during the past season.

D. J. SALES, *Hon. Secretary*, 1956/57.

SYLLABUS

1956			
Oct.	8	Economic Plants	Mr. L. Stenning
„	15	Gardens of Antiquity	Mr. T. W. J. Dumont
„	22	Lectures—Messrs. J. O. Shea, R. Johnson and R. G. Thomas	
„	29	Tour of Holland	Mr. D. J. Sales
Nov.	5	Plant Growth Substances... ..	Mr. P. Dunn
„	12	Trees and Shrubs for Autumn and Winter Colour	Mr. G. Messenger
„	19	Internal Debate—Messrs. R. Paterson, P. G. Dunn, T. F. Risely and R. I. Beyer	
„	26	Kew Throughout the Year	Mr. S. A. Pearce
Dec.	3	Lectures—Messrs. P. R. Jakobsen, A. J. Cleet and R. Paterson	
„	10	Spraying Machinery	Mr. J. Flemming
„	17	Horticultural Practices in the Gold Coast	Mr. G. Amoah
1957			
Jan.	7	The Kew Colonial Expedition to Tanganyika	Mr. E. Milne-Redhead
„	14	Irrigation in Iraq	Mr. P. Balaya
„	21	Lectures—Miss A. L. M. Atkinson and Messrs. T. F. Risely and A. J. Hale	
„	28	Oil Palms	Mr. A. Egbuniwe

Feb.	4	Contemporary Garden Design	Mr. P. Jakobsen
„	11	Carpet Bedding	Mr. E. Neighbour
„	18	Cambridge Debate—Messrs. L. C. R. Mills and A. Paterson	
„	25	Soil Erosion and Conservation	Mr. R. Forster
Mar.	4	Turf Management	Mr. J. McCracken
„	11	Wisley Debate—Messrs. T. F. Risely and R. R. Forster	
„	18	Artificial Illumination	Mr. F. P. Ryder
„	25	Brains Trust—Team Members: Dr. W. B. Turrill, Dr. C. R. Metcalfe, Mr. A. Woodward and Mr. McLean...	

KEW BOTANY CLUB, 1957.

The Annual General Meeting was held in the Lecture Room on 18th April, 1957, with Mr. F. N. Hepper presiding. Mr. R. G. Thomas was elected as Hon. Secretary with Mr. A. Paterson to assist. Miss R. Floyer and Mr. P. Catchpole were appointed to the Committee.

The usual demonstration and lecture on the collecting, drying and mounting of specimens was given by the Secretary. A proposal to change the name of the club from the "British Botany Club," which involves the misuse of a national title, to that of the "Kew Botany Club" was adopted.

Box Hill, Syon House, and Hounslow Heath again featured frequently in the summer programme of evening outings. A day trip was made to the Sittingbourne area where thirteen species of orchids were identified, including the beautiful Lady Orchid *Orchis purpurea*. Another under Mr. Milne-Redhead was to the marshes on Hitchin Common and by the River Oughton. In torrential rain Mr. Souster conducted a party through Ashted Forest which, being on London Clay, is mainly of oak. An interesting day was spent with Mr. Graham near Rickmansworth, where *Valerianella rimosa*, *Hieracium spraguei* and *Ceterach officinarum* were found. The last named, a fern, is apparently a rarity in the Eastern counties.

The Annual Outing was on July 4th. Starting at Cambridge we were conducted by Mr. Gilmour around Clare College Gardens. This was followed with a talk by Mr. Perrings on the B.S.B.I. Mapping Scheme. The afternoon was spent at Wicken Fen where our guide, Dr. Max Walters, gave an introductory talk on the history of the fen and its present-day functions. The highlight of the ensuing walk was the finding not of a plant but a butterfly—the rare Swallow-Tail—a beautiful and memorable sight in the summer sunshine.

The winter season started with Mr. Hepper conducting a large party of students around the Herbarium. Until Mr. Hepper returns from Nigeria in April, Mr. Souster has accepted the leadership of the Club.

The following lectures have been arranged for the winter season : —

- British Fungi by Dr. Ramsbottom (Oct.).
- Plant Nomenclature by Mr. Souster (Nov.).
- Flora of Mountains by Mr. Graham (Dec.).
- British Trees and Shrubs by Dr. Turrill (Jan.).
- Seaside Ecology by Mr. Brenan (Feb.).
- British Grasses by Mr. Hubbard (March).
- Flurry at Kew (Film and A.G.M.) by Mr. Ballard (April).

Included in the above programme was an excursion organised under Mr. Gilbert to Michelham Common during November, and a pending trip for the early spring.

As the judging of the collections of flora made by students will not be completed until the end of January the list of prizewinners for 1957 will be published in the 1958 Journal.

It only remains for me to heartily thank our good friends who have helped to make this current year such an outstanding success.

R. G. THOMAS, *Hon. Secretary.*

SPORTS AND SOCIAL CLUB, 1957.

Owing to the keen support of members in all sections the season has been a great success. The Annual General Meeting was held in October, 1957. The following officers were elected : — Chairman, Mr. N. Hickman; Treasurer, Mr. S. Pearce; General Secretary, Mr. A. Hart; Secretary Running Section, Mr. H. Overeynder; Secretary Cycling Section, Mr. P. Adshead; Secretary Football Section, Mr. J. Strabel; Secretary Cricket Section, Mr. T. Risely; Secretary Netball Section, Miss S. Woods; Secretary Photographic Section, Mr. M. Collet; Secretary Music Circle, Mr. B. Carter; Secretary Social Section, Mr. J. Brown; and Mr. T. Wood.

Mr. Neighbour retired from the position of Secretary in July, 1957. He had worked very hard to maintain the prosperity of the Club and we take this opportunity to express our sincere thanks.

The Annual Dance was held in January at the Castle Hotel, Richmond. A large number of Old Kewites attended. A dance was also held at this Hotel in March. Following a Committee decision, each "outgoing Student" was presented with a free ticket. In June we followed up the Kew-Wisley Cricket Match with a dance at the Boathouse Hotel. We were thus able to invite the members and supporters of the Wisley team. Again, the Autumn Dance was held at the Boathouse, a Skiffle Group providing the entertainment during the interval.

The Christmas Party was at the Orleans Restaurant, Richmond, on Friday, 13th December. The date did not affect

attendance and the "party-goers" turned up in force. The Fancy Dress Parade was colourful and spectacular and included witches and Snow White with the Seven Dwarfs. Mr. MacDonald, assisted by Messrs. D. Tabor, D. Waterman and D. Prior, appeared as "His Lordship the Bishop of Kew" with acolytes. His spectacular entry was followed by a few well chosen words! The party was a great success and much of this is due to the work of the Committee and to those Students who assisted in the organisation of the games and dancing.

Financially the Club is dependent upon subscriptions and the profits from Whist Drives. Again we owe much to Mr. and Mrs. Dunk who have so generously given up their free time to organise the Whist Drives.

I thank all those who have assisted in the task of organising each event. With their continued support the year 1958 will be equally as successful.

A. HART, *Hon. Secretary.*

RUNNING SECTION.

Our first event of the season was the Kew—Wisley race, held on March 30th. Four teams entered:—R.H.S. Gardens, Wisley; East Malling Research Station; Kent Horticultural Institute, Swanley; Royal Botanic Gardens, Kew.

Dr. Taylor started the race. The first 300 yards were fast with Wisley and Swanley fighting for the lead. Richmond level crossing was approached with Wisley in the lead and with Kew at second place 100 yards behind. Alas, the gates closed after the Wisley runner was across and he added 500 yards to his lead while the others were held up. Once the gates were opened Kew led the chase which followed and at one time were only 50 secs. behind the leader. However, Wisley maintained their position and finished 1 min. 10 secs. ahead of Kew. Swanley was third and East Malling fourth. Wisley were thus winners of the Pring Trophy; Kew—the Maori Batons. The Wisley Team covered the 17½ miles in record time—1 hr. 26 mins, 43 secs. Kew's team in order of running was:—M. Collett, R. Thomas, A. Porter, R. Johnson, T. Dumont and H. Overeynder.

The Clog and Apron Race was held on June 27th, at 8 p.m. Dr. Taylor was our starter with Dr. Bor as official at the finish. A. Porter was the winner, beating P. Dunn by "half a clog."

The Round the Gardens Race over 2½ miles was held on October 18th at 5 p.m. Dr. Bor, Mr. Stenning and Mr. Pearce acted as officials. Collett took the lead and maintained a high pace. At the half-way stage he was 50 yards ahead of Johnson, Wood and Overeynder. Eventually the lead was taken by H. Overeynder and he maintained this to win by 18 secs., covering the distance in 15 mins. The order which followed was:—

M. Collett, R. Johnson, and Wood. The team prize was won by Collett and Carter, representing the Decorative Dept.

Our thanks are due to Dr. Taylor and to the members of his Staff for their interest and help.

H. OVEREYNDER, *Section Secretary.*

MUSIC CIRCLE

1957 provided members with a wealth of musical items. For the first six months L. C. R. Mills, as Honorary Secretary, gave a very varied and enjoyable series of programmes. His vivid and colourful posters advertising each meeting will be especially remembered. In June pressure of work unfortunately necessitated his resignation and the honour of filling this post then fell to me. Our sincere thanks to him are dutifully recorded here.

Throughout the year Dr. and Mrs. C. R. Metcalfe have been our very good hosts, providing us with the hospitality of their home. Refreshments during the intervals were graciously provided by Mrs. Metcalfe, the proceeds being donated to Dr. Barnardo's Homes.

It is to these two wonderful people that we owe our very deep and sincere thanks for helping to make this club one of Kew's most popular after-duty activities.

Thanks are also due to all members for their unfailing support and encouragement.

BRIAN CARTER, *Hon. Secretary.*

CRICKET SECTION, 1957.

Only three of the 1956 players remained at Kew and the task of raising our prestige on the cricket field was undertaken by a team consisting mainly of new members. The team worked hard and at practices there was an average weekly attendance of twelve. They gained three victories out of eight hard fought and enjoyable matches. Several fixtures were cancelled owing to inclement weather or to requests to do so by opposing teams.

The season began with a 34-run victory over Heston Meths. C.C. (G. Smith 4 for 8). This was followed by a depressing run of five defeats. We lost at home to Avondene by 10 wickets and to Wisley at home by 61 runs, despite G. Smith's magnificent bowling (7 for 29). During the hottest afternoon of the year he bowled 20 overs unchanged. Away at Cambridge we lost by 60 runs. We lost twice at the hands of Ilford Parks Dept., away by 1 wicket, at home by 6 wickets.

However, through continued and earnest practice the last two matches of the season resulted in substantial victories over our traditional enemies—Cambridge and Wisley. We defeated

Cambridge at home by 1 wicket (G. Nicholson 5 for 13) and Wisley away by 3 wickets (G. Smith 4 for 27, G. Nicholson 5 for 37).

G. Nicholson topped the bowling averages with 6.9 runs per wicket. G. Smith was second with 9.3. K. Currie topped the batting with 25.2 runs per innings. T. Risely was second with 13.7.

Owing to weather conditions the match with the Old Kewites was cancelled, although this was fortunate in one way as only seven Old Kewites had agreed to play. This fixture will be held on Saturday, 19th July, in 1958.

Thanks are due to Misses Atkinson and Floyer for scoring so efficiently, but difficulty has been experienced in securing umpires and any Old Kewite living in the London area would be welcomed in this capacity.

FOOTBALL SECTION.

So far as results are concerned this season has proved unsatisfactory. We have played three games, all of which have been lost.

The first game was at Wisley and, in the opening seconds, tragedy struck when one of our most valuable players badly twisted his knee. The stronger Wisley team attacked our goal and scored repeatedly, our only consolation being a solitary goal scored just before the interval. Still smarting from this defeat we visited St. Mary's Youth Club, Battersea, and lost 3 - 1. Our third match gave more grounds for hope when the forwards managed to net three goals. Once again, however, the defence proved to be "shaky" under pressure.

We must hope that the improvement continues in the new year and that in the next issue of this Journal we can report a few victories.

J. F. STRABEL, *Hon. Secretary.*

LAWN TENNIS CLUB.

The first part of the 1957 season was mainly fine and dry, but later on the weather became very unsettled and many club days were unsuitable for play. Membership continued surprisingly low, and Students showed little interest.

Of the three home matches that were played, all mixed, those against the British Museum (Natural History) and Richmond Post Office were won by Kew whilst the return against the British Museum (Natural History) was lost. During one of the matches against the British Museum, our President, Dr. G. Taylor, generously entertained the teams and their supporters to tea. Other matches were cancelled owing to weather whilst for the matches against the R.H.S. Gardens, Wisley, it was in both cases found impossible to raise a men's team. It was also impossible to

play the annual Staff v. Students match as the Students could not muster six players.

The Proudlock Cup Competition, which is open to both Club Members and the Members of the Kew Guild, started late so as to help Students wishing to enter, but even so entries were again small. Mr. H. Overeynder beat the Hon. Treasurer, Mr. R. J. Claiden, in the semi-final match and Mr. S. G. Harrison in the final for the Men's Cup. Both these matches had to be played on hard courts after the close of the Club's grass courts. Mrs. Milne-Redhead again won the Ladies' Cup by beating Mrs. Harrison in the final.

Considerable work was done on the courts under the able supervision of Mr. S. W. Rawlings, and it was generally agreed that, at the end of the season, they were in better condition than they had been for many years. The Club is greatly indebted to their Groundsman, Mr. C. W. Preston, who so willingly spent many hours of his spare time working on its behalf.

E. MILNE-REDHEAD, *Hon. Secretary.*

PHOTOGRAPHIC SECTION

Three well attended meetings have been held during the past year. The first was in April, when several members showed their colour slides on the screen. The standard was very good. In June Mr. A. D. Thomson showed the extensive collection of slides which he had taken during the time he spent at the Botanic Gardens, Munich. He commenced with slides of the gardens and of the town's architecture and followed with views of the Bavarian Alps and the Northern Austrian Tyrol. These included slides showing the Bavarian castles, churches, natural scenery and the lowland and high alpine flora. The evening ended with brief glimpses of the botanic gardens of Innsbruck, Stuttgart, Heidelberg, Frankfurt and Darmstadt. The final meeting was held in October when members again showed their slides, this time those which were taken during the past summer.

M. J. COLLETT, *Hon. Secretary.*

KEW METEOROLOGICAL NOTES, 1957

The chief weather features for 1957 in south-east England mostly coincided with the year's four quarters. The first of these three-monthly periods was extremely mild, the second dry and mainly sunny, and the third cool, cloudy and wet, the year ending with an almost featureless October to December.

One would need to go back a long way to find such a mild January to March period. There was no air-frost in any one of these, usually nearly our coldest months. The lowest air temperature in January was 32 degrees, in February 31.9 degrees, with a similar reading for March. One of the results of this remarkable

mildness was the full expansion on April 1st of some blossoms on a Horse Chestnut tree on Kew Green, perhaps the earliest flowering of this species for more than a century.

April, 1957, was the fourth consecutive dry April, normally one of our driest months. May was similarly dry and so was June, but this month was also sunny and warm. Twice in June the thermometer climbed into the nineties, 96 degrees at Camden Square on the 29th being the highest June temperature recorded in the British Isles since 1858.

July was wet and so were August and September, but these two months were also cloudy and cool.

As stated above, the fourth quarter of the year had scarcely any special features. It might, however, be mentioned that November was fogless and had only one air frost. There was a severe gale on the 4th. Christmas, 24th - 27th December, was bright, dry and rather mild.

E. NELMES.

1957	Rainfall in Inches	Temperature		Grass Av.
		Maximum Av.	Minimum Av.	
January ...	1.57	48.2°	43.5°	36.6°
February ...	2.56	49.4°	43.7°	36.2°
March ...	1.11	58.2°	50.1°	42.8°
April29	58.4°	47.7°	43.3°
May ...	1.14	61.8°	50.8°	44.9°
June99	73.5°	58.6°	52.4°
July ...	2.98	74.2°	58.4°	56.9°
August ...	3.87	70.6°	54.3°	55.2°
September ...	2.35	64.7°	49.4°	48.9°
October ...	1.87	59.7°	48.4°	45.5°
November ...	2.30	51.6°	38.7°	37.8°
December ...	1.83	47.1°	34.1°	30.5°
Total ...	22.86			

* * *

Overheard at Kew.—The Lithops in the S. African House.

“They’re just stones really you know, put in to look like plants.”

PLANTS IN BLOOM AT KEW ON DECEMBER 31st, 1957

- Amaryllidaceae.*
Galanthus elwesii Hook.f.
- Berberidaceae.*
Mahonia Japonica DC.
 " *trifurcata* Hort.
- Betulaceae.*
Alnus matsumurae Callier.
 " *spaethii* Call.
- Calycanthaceae.*
Chimonanthus fragrans Lindl.
- Caprifoliaceae.*
Lonicera fragrantissima Lindl. & Paxt.
 " *purpusii* Rehd.
 " *standishii* Carr.
Viburnum bodnantense Aberconway.
 " *carlcephalum* Burkwood.
 " *fragrans* Bunge.
 " " " var. *candidissima*.
 " " " var. " *Farrer's Pink*".
 " *foetens* Decne.
 " *grandiflorum* Wall.
 " *tinus* L.
- Cruciferae.*
Iberis sempervirens L.
- Ericaceae.*
Erica australis L.
 " *carnea* (L.) var. *praecox rubra*.
 " " " var. " *Springwood White*".
 " " " var. " *Winter Beauty*".
 " *darleyensis* Bean.
 " *mediterranea* L.
 " " " var. " *W. T. Ratcliff*".
Calluna vulgaris (Salisb.) var. *albo plena*.
 " " " var. " *County Wicklow*".
Rhododendron mucronulatum Turcz.
 " *nobleanum* Lindl.
- Hamamelidaceae.*
Hamamelis japonica (Sieb. & Zucco.) var. *arborea* Beau.
 " " " var. *Zuccariniana* Hort.
 " *mollis* Oliver.
 " " " var. *pallida* Chittenden.
 " *vernalis* Sarg.
Parrotia persica C. A. Meyer.
- Iridaceae.*
Iris unguicularis Poir.
 " " " var. *alba*.
 " " " var. *angustifolia*.
- Leguminosae.*
Ulex europaeus L.
- Oleaceae.*
Jasminum nudiflorum Lindl.
 " " " var. *aureum*.
- Ranunculaceae.*
Helleborus antiquorum A. Br.
 " *atrorubens* Waldst. & Kit.
 " *corsicus* Willd.
 " *foetidus* L.
 " *kochii* Schiffn.
 " *niger* (L.) var. *atropurpurea*.
 " *orientalis* Lam.
 " " " vars " *Abel Carriere*" and " *White Swan*".
 " *viridis* (L.) var. *graveolens*.
- Rhamnaceae.*
Ceanothus " *A. T. Johnson*".
- Rosaceae.*
Chaenomeles hybrid.
Prunus serrulata (Lindl.) var. *Fudanzakura*.
 " *subhirtella* (Miq.) var. *autumnalis* Makino.
- Salicaceae.*
Salix Medemii Boiss.
- Scrophulariaceae.*
Veronica speciosa (R.Cunn.) varieties.
- Ternstroemiaceae.*
Camellia japonica (L.) var. " *Fleur de peche*".
 " " " var. *noblissima*.
 " *sasanqua* Thunb.
 " *X Williamsii* var. " *November Pink*".

The daily maximum and minimum temperatures for December, 1957, are as follows :—

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Max.	46°	46°	37°	32°	42°	48°	56°	58°	51°	54°	46°	46°	41°	40°	37°	39°
Min.	25°	25°	24°	26°	32°	38°	42°	44°	42°	41°	40°	39°	38°	30°	26°	21°
Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Max.	44°	48°	54°	47°	54°	50°	51°	46°	47°	45°	49°	55°	48°	51°	51°	
Min.	23°	30°	40°	25°	47°	36°	36°	40°	39°	28°	31°	31°	44°	35°	39°	

HERBARIUM LECTURES

The lectures during the earlier part of 1957 have already been recorded in the last issue of the Journal and this account now deals with subsequent talks during the year.

Dr. Dárdano de A. Lima, Universidade Rural de Pernambuco, Recife, Brazil, described the vegetation of the state of Pernambuco, in comparison with that of the Amazon region.

Mr. A. V. Bogdan, Grassland Research Station, Kitale, Kenya, gave an account of the "Scenery and Vegetation of Kenya" showing the areas of vegetation from the Mombassa coast, inland to the highlands around Mount Kenya with special reference to grasslands, the plants related to freshwater and soda lakes, and various commercial crops of which coffee is now one of the most important which is grown in the shade of bananas, forming a useful and profitable double crop.

Mr. J. D. A. Stainton spoke about his "Botanical Expeditions to Nepal" collecting interesting plants for the Royal Horticultural Society.

Mr. E. Milne-Redhead showed a third set of colour-slides taken by his colleague, Mr. P. Taylor, on the Colonial Office Expedition to southern Tanganyika during 1955-56. This time he covered their journey back from Songea to Njombe and then along the Great North Road via Iringa, Dodoma, Kondoa, Arusha and Namanga to Nairobi. Photographs were also shown taken on short visits to Lakes Magadi and Natron and the Royal (Nairobi) National and Amboseli Game Parks. The talk finished with a brief view of Makerere University, Uganda.

Mr. G. Brownlie, Canterbury University College, Christchurch, New Zealand, gave a talk on the "Scenery and Vegetation of South Island, N.Z." in which he shows the ecological associations of native grasslands, *Nothofagus* forest and scrub-land of the alpine and sub-alpine vegetation on the east side of the Main Alpine Rangeland and also included some very interesting photographs of the remarkable composite *Raoulia eximia*, with a huge flower head measuring some five by one to two feet wide, which has all the appearance by what it is commonly known as "Vegetable sheep."

Dr. N. H. Brittan, University of W. Australia, Perth, introduced his talk on the "Vegetation and Plants of Australia" by a brief account of the climates affecting the Australian continent followed by a series of slides showing some typical forms of vegetation—sand-plain of the drier 10-20" rainfall areas of W. Australia, Eucalypt forest of sclerophyllus (20-35") and various mesophytic (40") types together with the effect of unusual rains in the Nullarbor Plain, noticeably giving rise to extensive growth of *Stipa sp.* and numbers of annuals. With scenes of Eucalypt forest in the Blue mountains of New South Wales and Lamington National Park in Queensland, the talk closed with a series of close-up photographs of W. Australian wild flowers.

J. KENNEDY O'BYRNE.

EXTRACTS FROM *THE KEW GUILD JOURNAL*—

50 years ago.

—At the Annual General Meeting, 1907 :—

“Mr. Dallimore called attention to the statement by Sir E. Strachey in the House of Commons that the gardeners at Kew were apprentices. He proposed as a resolution ‘That this meeting of the Kew Guild, composed of past and present gardeners and others employed at Kew, protests against the statement made officially by Sir E. Strachey in the House of Commons on May 23rd, that “the men employed at Kew are not gardeners, but apprentices.” They are men of the average age of 23, who have had at least five years’ professional training before entering Kew as journeymen gardeners, and their duties at Kew are the care and cultivation of the living collection of plants. They work from 6 a.m. to 6 p.m. in summer and from daylight to dark in winter; they also attend certain lectures in their own time at night after their day’s work is done. They are certainly as much entitled to be called gardeners as any other men of the same age and training, and it is a misrepresentation of the fact to describe them as apprentices.’ This was seconded by Mr. H. Cowley, supported by Messrs. F. J. Cole and G. Bates, and adopted unanimously. It was also agreed that copies should be sent to the President and Secretary of the Board of Agriculture, Sir E. Strachey, and the principal daily newspapers and horticultural journals.”

—In Appointments and Retirements :—

SIR JOSEPH D. HOOKER.—Kewites will be glad to learn that His Majesty the King has conferred the Order of Merit on Sir J. D. Hooker, G.C.S.I., C.B., F.R.S., etc. Sir Joseph was Director of Kew from 1865 to 1885. Although he is now over ninety years of age, he enjoys perfect health and still works hard at botany. The genus *Impatiens* takes up a good deal of his time.

MR. C. F. BALL has been appointed Assistant, and **MR. J. W. BESSANT** General Forman, in the Royal Botanic Gardens, Glasnevin, Dublin.

—Among the advertisers :—

- James Veitch and Sons, Ltd., Royal Exotic Nursery, Chelsea.
 President of the Guild : W. Watson.
 Vice-Presidents : W. B. Hemsley, L. G. Nicholson.
 Treasurer : W. J. Bean.
 Chairman of the Mutual Improvement Society : D. Dallimore.
 Vice-Chairman : A. Osborne.
 Hon. Secretary : F. G. Preston.
 Lecturer of Geographical Botany to Students : N. E. Brown.

WEDDING BELLS

Mr. Joseph S. McCracken to Miss Maureen E. Jacob at St. James' Parish Church, New Malden on 30th March, 1957.

Mr. Peter Balaya to Miss Renate Lucka at St. Winifride's, Leybourne Park, Kew on 13th April, 1957.

Mr. John Kennedy O'Byrne to Miss P. Z. Scammel at Ealing Registry Office on 20th May, 1957.

Miss Cynthia Goodrich to Mr. Ovenden-Roberts at Eastcote, Ruislip on 1st June, 1957.

Mr. Fredrick Vickers to Miss Jean Townley at St. Andrew's Church, Crewe on 29th June, 1957.

Mr. Trevor Elton to Miss M. C. Southern at St. Nicholas' Church, Godsall on 3rd August, 1957.

Mr. Anthony E. Goodale to Miss Ann Panter at Epsom Registry Office on 14th September, 1957.

Mr. Edward C. Neighbour to Miss P. Mary Searle at St. Laurance's Parish Church, Brentford on 14th September, 1957.

Mr. Peter G. Dunn to Miss Sheila M. Franklin at St. Giles' Parish Church, Sheldon on 5th October, 1957.

Mr. Arnold Cleet to Miss Anne Thorpe.

Mr. B. R. Savage to Miss Margaret Morgan at Presbyterian Chapel, Clifton Street, Cardiff on 30th June, 1956.

POSITIONS TAKEN BY STUDENTS
ON LEAVING KEW DURING 1957

Addison, P.	Liverpool Parks Dept.
Beyer, R. I.	Propagator, I. Elliot, Stow-on-the-Wold.
Cleet, A. J.	Johannesburg Parks Dept.
Dumont, T. W.	Student, Reading University.
Dunn, P. G.	Foreman, Uxbridge Parks Dept.
Fleming, J.	Derby Parks Dept.
Forster, R. R.	Vinlands Experimental Station, Ontario, Canada.
Hale, A. J.	Foreman, Royal Botanic Gardens, Kew.
Hickman, N. C.	Foreman, Royal Botanic Gardens, Kew.
Jakobsen, P. R.	Military Service, Denmark.
McCracken, J. S.	Propagator, Hammersmith Parks Dept.
Messenger, G.	Hertfordshire Farm Institute.
Neighbour, E. C.	Student, The Grotto, Inst. of Parks Administration.
Powell, Miss M. C.	L.C.C. Parks Dept.
Prive, A. E.	Royal Botanic Gardens, Kew.
Ryder, F. P.	The Grotto, Inst. of Parks Administration.
Shea, J. O.	Waterer's, Bagshot.
Sumner, R. J.	L.C.C. Parks Dept., Herne Hill.

*Statistical Analysis of the Number of Visitors to the
Royal Botanical Gardens, Kew, during the year ending
31st December, 1957.*

Monthly Attendance, 1957.

1957.	Total Weekdays.	Total Sundays.	Monthly Total of All Days.
January	4,760	6,667	11,427
February	11,141	12,222	23,363
March	55,059	63,172	118,231
April	141,285	77,280	218,565
May	68,755	54,613	123,368
June	91,980	76,936	168,916
July	72,854	30,399	103,253
August	115,078	38,448	153,526
September	40,554	36,451	77,005
October	24,400	23,475	47,875
November	6,402	3,877	10,279
December	3,840	5,167	9,007
	<hr/> 636,108	<hr/> 428,707	<hr/> 1,064,815

Month with greatest attendance ...	April	218,565
Month with least attendance ...	December	9,007
Weekday with greatest attendance ...	Good Friday, 19th April ...	32,870
Sunday with greatest attendance ...	Easter Sunday, 21st April.	34,500
Weekday with least attendance ...	13th December	14
Sunday with least attendance ...	24th February	645
Total increase over 1956 figures	76,980

* * *

Overheard at Kew.—In the Stove House.

“The leaves can’t be that colour really. I expect they paint them.”

“They feed them with rusty nails to get that colour.”

ZANZIBAR AND PEMBA.

It was nearly twelve years ago that my wife and I left Trinidad for the Zanzibar Protectorate. The change took us from an island thirteen degrees north of the equator to one six degrees south, and from South America to East Africa. The climate is fully tropical in both Trinidad and Zanzibar, but in Zanzibar we benefit from a long cooler season, although we suffer for the remainder of the year from greater humidity.

The Protectorate consists of two islands, Zanzibar and Pemba, separated from point to point by about 40 miles, or from port to port by more than twice that distance. Zanzibar is the larger covering 640 square miles compared to Pemba which covers 480 square miles. Both attain a height of less than 400 feet, Zanzibar being considerably flatter than Pemba. Both islands follow a common pattern, the best soils and the highest rainfall occurring in the west; the eastern parts contain considerable outcrops of coral and they are covered mainly with low bush and bracken. Cloves have been planted on the best soils in the western and central portions of the islands. There are approximately four million trees, eighty per cent of them being in Pemba where the rainfall is higher. Coconuts are grown generally throughout the islands but to a greater extent in Zanzibar than in Pemba, as the trees prefer the sandy coastal areas which are lacking in Pemba where the foreshore is largely mangrove swamps.

Cloves grow on tall columnar shaped trees, densely clothed with shining green and reddish leaves. The buds are picked and dried just before the petals expand. Zanzibar and Pemba produce between them an average of 10,000 tons of cloves a year and are responsible for more than 70% of world production. Crops are, however, considerably variable within known limits of 3,000 to 20,000 tons.

Cloves and clove oil together comprise 82 per cent of the value of exports of all kinds and contribute 35 per cent of the revenue of the Protectorate. This form of revenue is collected by a 20% excise tax on exports. The necessity of levelling out the production of good and bad years is evident and the Clove Growers Association is operated with that end in view. A fixed "floor" price is set at which the Association will buy all consignments if the market prices are low. It will sell at fixed prices for declared proportions of export consignments. It does not make sales overseas itself; that is left to private exporters. The Association provides funds on loan to producers for weeding their groves, for picking and leasing crops, for the purchase of clove properties and for building houses thereon for better supervision of the groves. It also receives cloves on deposit against cash advances. Its operations have been conducted on a large scale over many years; during the last season, for example, the Association purchased cloves valued at £2,130,235 and sold £1,046,182 worth. It also

operates a clove oil distillery producing about 110 tons of oil per annum, mainly from the stems of cloves, as these are not permitted to be exported. The profits of the C.G.A. are ploughed back into agriculture, being used for the rehabilitation of groves, research into diseases, development of new crops and the upkeep of rural roads, etc. I joined the Association as General Manager in 1948 after nearly 33 years in the Colonial Agricultural Service.

There are good macadam main roads in both islands and many of these are bordered with beautiful flowering trees such as *Cassia grandis*, *C. fistula*, *C. spectabilis*, *C. siamea*, *Delonix regina* (Flamboyante), *Peltophorum ferrugineum*, *Spathodea campanulata*, etc. There is a weekly steamer service between the islands, a daily plane service and many itinerant dhows which operate with a large single mainsail; these inter-island dhows have their decks roofed with palm leaves.

For the last two years we have lived in a new modern tropical house, with wide verandahs and a big garden. After living in a house in which gardening was restricted to a small central courtyard we were overjoyed to have an acre and a half of land to play with! We made lawns, laid out roads and planted trees to protect us from the sun. In twenty months we achieved some remarkable results. *Peltophorum ferrugineum* 17 ft. high and 27 ft. spread; Flamboyante, the ordinary variety, 18 ft. high, and a yellow Flamboyante, raised from seed sent by my son from British Guiana, 15 ft. high.

The quickest growing of all our trees have been the *Casuarinas*. As we border on a golf course we wanted them as a protection from stray balls. The trees are now nearly 30 ft. high at less than two years' planting and are already serving their purpose, as well as being a most attractive light screen.

Our main feature has been *Bougainvillaea*. Before building commenced we planted a hedge of all the colours we could lay our hands upon; Mrs. Butt, Mrs. Helen McClean, the South American white, *B. alba* and a number of seedlings of different shades of mauve. Mrs. McClean is particularly pretty and with age the bracts become rosy pink. Later we added to these with varieties sent to me from Nairobi by Mr. Greensmith in exchange for *B. alba*. What a wonderful addition they were:—Golden Glow, Poultonii, Isabel Greensmith, Gillian Greensmith, Elizabeth and Gladys Hepburn. Golden Glow is remarkably pretty in bud and on ageing changes to a fascinating papery pinkish hue. Poultonii has beautiful rich, very deep bracts, the white flowers standing out in sharp contrast. Gillian Greensmith is a pleasing reddish shade; its outstanding character is freedom of flowering. Elizabeth is later flowering than the others and is noted for the deepness of its purplish coloured bracts; the flowers of this variety are also white and stand out in sharp contrast. Gladys Hepburn is a very pretty pink *Bougainvillaea* but, unfortunately, it appears to be a shy flowerer.

Our *Bougainvillaeas* have been a magnificent sight and a joy to all who have seen them; they are never entirely without flowers.

R. O. WILLIAMS.

ROADSIDE PLANTING IN LEICESTERSHIRE.

My post as officer in charge of horticultural work undertaken by the Surveyors Department of the Leicester County Council is mainly concerned with the planting and maintenance of trees and shrubs on dual carriageways and roundabouts. However, owing to extensive road improvements on all classes of roads, considerable work is involved in the establishment of new roadside verges and in planting new hawthorn boundary hedges and trees. Our task often includes the transportation of soil, grading and seeding. These works also provide an opportunity for replacing some of the trees lost during the war or in former road-widening schemes, making sure that suitable species are planted which at maturity will not be too large or constitute a danger on the highway.

Where District Councils carry out tree planting schemes on housing sites advice is given as to species suitable to plant. In cases where Councils have no skilled labour available we undertake the work on their behalf on a rechargeable basis. So much unfortunate planting has been carried out in the past, e.g., forest trees in narrow streets, that great efforts are being made to stop its recurrence.

Like many other branches of horticulture the work has become mechanised. Our machinery includes four Ferguson tractors complete with a full range of attachments including Howard rotovators, which are used for grass seeding and general earth works. In addition we have gang mowers and a host of smaller machines. Excavators and bulldozers are usually required for the larger schemes, care being taken to see that topsoil is not lost in or mixed with the subsoil. Our labour force is essentially mobile, the machines and men being transported in two lorries and a van. One of the gangs is employed permanently in planting and maintaining hawthorn boundary hedges.

Approximately 1,500 trees, 1,000 shrubs and 50,000 hawthorn hedging plants are planted annually. These are all grown in the nursery. Also on the site of the nursery a Depot has been established for stores accommodation and mechanical maintenance.

The planning of roadside plantings is very interesting and holds great opportunities for originality. The aim is to blend the carriageways, islands and verges with the surrounding landscape.

N. WAUMSLEY.

* * *

Overheard at Kew.—The Lycopodiums in No. 2.

“They look almost real.”

THE NATIONAL DIPLOMA IN HORTICULTURE

Each year, following the N.D.H. examination, a report is issued by the R.H.S. based on reports submitted to it by the various examiners. Year after year the tone is somewhat similar, calling attention to the poor standard of work by many of the candidates. This often raises the question—Is the examination wrong or is the work of the candidates wrong? From time to time there is a demand in some quarters for re-organisation of the examination in order that more candidates may pass. I am going to say straight away that I believe the examination is right and those that fail have not reached the standard required.

What is the standard required? In order to answer this let us go back to the beginning. The first N.D.H. examination was held in 1915 following the first Preliminary examination in 1914. The examination has, then, been in existence for over forty years; throughout this period I have been familiar with the papers set and with many candidates. It is true that the examination has progressed to keep pace with the development of horticultural practice and science, e.g., In those early days the only weapons we had for controlling insect pests on apple trees was grease banding the trunks, or washing the trees with caustic soda or alternatively lime wash. Remember too that it was cart wheel grease that we used. Now there are many kinds of insecticides used to protect apple trees from pests. In consequence of progress there are more things to remember connected with all branches of horticulture. In this respect the examination has altered but it only reflects the progress of our industry. The standard of the examination has not altered, it was, and still is, a test designed for the candidate who *is in the job*, to find out if he or she really has a knowledge of the craft and at the same time enough scientific knowledge to know why the job is done in that way.—That is the standard.

What advice can I give to candidates? First obtain from the R.H.S. a copy of publication entitled “Examination for the National Diploma in Horticulture”; read it carefully and note the difference between what is required for the three stages of the examination: A. The Preliminary; B. The Intermediate; and C. The Final Examination. It is probable that most of my readers will be able to claim exception from A. Note too that certain things are excluded from the Intermediate but are included in the Final.

Secondly when you come to answer your written paper *Read the questions carefully*. Mark those that you feel you can answer best straight away; do not waste time on making your decisions. Now take each question in turn and again read the question and make up your mind exactly what the examiner wants to know. If he asks how you would grow parsnips, tell him your own method of growing the crop, soil preparation and manurial treatment—the variety you would use—how much seed you would require—when and how you would sow—singling and after cultivation

—pest and disease control—whether you would lift and store and if so, when; or if you would leave the crop in the ground until required. Not forgetting the possible spread of “canker” by leaving the roots in the ground. Do not, I repeat, do not, waste your time and the examiner’s by telling him the effect of preparing the soil in autumn. By all means say that you prefer to prepare the soil in autumn, if you do prefer it, but not a lengthy story of effects of autumn cultivation. You were not asked for it.

Use diagrams whenever you can, oil paintings are not required but simple line drawings will save you a lot of time.

I find candidates are weak on the economics of horticulture. A question of what it costs to set up x acres for market gardening or some other enterprise is generally avoided, sowing rates per acre, rates of manurial dressings are other examples of weakness. I have always impressed on my students to remember that $1\frac{1}{2}$ ozs. per sq. yd. is approximately 4 cwts. per acre; any manurial dressing can be calculated if these figures are remembered.

After the written examination is over go home and read up those questions you have not answered. It may come in useful when your *viva voce* takes place at your final practical.

Now for the practical you will be required to do some work on a plot of land, e.g., sowing seeds. Can you put down a tight line?—few can. If the rate of sowing onion seed is 8 lbs. per acre do you know how many seeds are required in a foot of soil? There is a lot of difference in sowing brassica seed for a plant bed and for sowing *in situ* for cutting out. I once had the experience of marking a candidate’s paper who had been asked how to sow January King cabbage for cutting out; he had 50 seeds in a foot of drill. There would be a lot to “cut out” would there not? Now this candidate either had not read the question or did not know what he was doing.

You may be asked to sow or plant several crops; you will be expected to know the right distance between say a row of Brussels sprout and the next row of cabbage, or the correct distance between black currants and strawberries in the row and between the rows. In the potting shed you will have to sow seed, prick out and pot up plants. The examiners are looking for craftsmanship. You may have to insert cuttings, bud or graft. The examiner asks himself only one question—Would it grow? It often would not.

Simple arithmetical problems, often reveal weakness or carelessness. You may be asked to measure a plot of land and apply fertiliser at the rate of x cwts. per acre. Half this question is arithmetic. It is surprising how many different answers one gets. They cannot all be right. Do you know what 8 cwts. per acre looks like on the ground? You should do because the examiner will. My readers would be surprised how the cubic capacity of a glass-house can vary from candidate to candidate. Within the space allotted me I cannot cover all the points I would like, but do go

to the practical examination armed with the size of a Dutch Light and how to set out a right angle in a field.

The recognition of pests and diseases is generally well done; the identification of materials used in horticulture not so well done. None will be poisonous. Make use of your botanising periods, a wide knowledge of plants including weeds will help you when you do your plant identification. One final remark—you will have a plan to do; what kind of plan depends upon the section you are taking. The knowledge of how to read a map is necessary.

The N.D.H. syllabus is wide. Never lose heart because you feel you have done this or that wrong. Success or failure depends upon your total mark at the end. Never copy the other candidate; he or she may be wrong.

Good luck.

G. C. JOHNSON.

NOTES AND GLEANINGS

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

W. J. Bean.

Our hearty congratulations are offered to Dr. Norman Loftus Bor, C.I.E., the Assistant Director of Kew, who appeared in the Queen's Birthday Honours List in June, 1957, having been awarded the Order of the British Empire.

* * *

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

* * *

Congratulations to Mr. J. R. Sealy on being elected an Honorary Fellow of the American Camellia Society. This award is in recognition of his contribution to the "cause of the Camellia."

* * *

We congratulate the following present students and Old Kewites on their success in the N.D.H. (1957) or the D.I.P.A. (1956) :—

National Diploma in Horticulture 1957.

Finals. Section 1. General :—

J. K. Burras; G. E. Collins; D. J. Sales.

Finals. Section VI. Horticulture in Public Parks : —

T. F. Risely.

Intermediate Examination : —

Miss F. G. Floyer.

Diploma of Institute of Parks Administration, 1956.

Finals : —

D. Hubbard; G. Littlewood; B. R. Savage; I. J. Seager;
F. Tweedale.

Intermediate Examination : —

G. Crowder; H. R. Dally; A. P. Dunball, P. G. Jew;
P. Maunder.

* * *

Miss M. Powell has passed Part 1 of the General B.Sc. Examination. She is taking Botany, Geology and Chemistry. Her work for this was mainly in the evenings. She is now studying hard for the Finals.

* * *

Mr. C. H. Curtis has received the new honour of Chevalier de l'Ordre de Leopold awarded for the part he has played for so many years in connection with the organisation of the Florales Gantoires.

Mr. Curtis, whose career extends back to the days when Messrs. James Veitch and Sons of Chelsea were among the leading nurserymen in the horticultural world, has written a set of memoirs which he has titled—"From Crock-boy to Editor." We look forward to their publication in the 1958 Journal.

* * *

Mr. Harry Ruck entered Kew in 1907, and has thus completed 50 years of service. This is indeed a fine record. Mr. Ruck entered the Gardens when he was 14 years of age.

Miss Maud Wood retired in November, 1957, after 27 years service in the Herbarium as a cleaner. She joined the staff in 1930 and has lived in Kew, as her father Constable William Wood did, all her life. A fund of riverside epithets and of local history marked her as a veritable Kew "Water Rat."

Corporal Gadd, who retired in August, 1957, entered Kew as a pony boy in 1906. He was demobbed after serving in the 1914-1918 war, in which he won the Military Medal. Promoted to Corporal in 1926 he soon became well known in the Herbarium as a fiery but reliable and efficient person who in all his 31 years was only away sick once. He was awarded the Imperial Service Medal in 1956.

Corporal Barter retired in July, 1957. He started in the Gardens as a labourer in 1919 and joined the Garden Constabulary in 1925. He was also awarded the Imperial Service Medal in 1956.

This award was also made to Mr. C. W. Preston in 1956 after 35 years of service, and to Mr. W. Mort in 1957 after 28 years of service.

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Old and Present Kewites serving on Royal Horticultural Society Committees :—

Dr. George Taylor has returned to the Council. Under the five-year rule he retired in 1956.

Sir Edward Salisbury has been elected a Vice-President. He also accepted the office of Professor of Botany.

Dr. W. B. Turrill remains as Editor of *Curtis's Botanical Magazine*.

Mr. W. M. Campbell is a member of the Floral B Committee.

Mr. L. Stenning is Secretary to the Orchid Committee.

Mr. G. Preston is serving on the Iris Committee.

Mr. C. E. Hubbard has accepted an invitation to become a member of both the Scientific and Library Committees.

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Dr. G. Taylor has been elected a member of the Visiting Committee of Arnold Arboretum. He visited the Arnold Arboretum and Harvard University from 4th-14th December and carried out a very crowded programme. This included two lectures on his Tibetan travels.

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Mr. R. D. Meikle is now a member of the Council of the Linnean Society.

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On 27th September, 1956, Dr. W. B. Turrill retired as Keeper of the Herbarium at Kew. The occasion was marked by a fitting ceremony in the Keeper's Room when a presentation was made by the Director. This included *Godwin's History of the British Flora*, a Parker 51 pen and pencil, a wallet and a pipe with tobacco, cigarettes and matches. His colleagues had also prepared tobacco from *Tussilago farfara* and this was presented as a reminder of his days at Oxford. Mrs. Turrill, who was also present, was given a travelling clock, a box of chocolates and a bouquet.

Mr. C. E. Hubbard took over as Keeper of the Herbarium on October 1st, 1957.

* * *

Mr. Alfred Keys, who entered Kew in 1913 and who went out to the United States shortly after the 1st World War, retired in March, 1956. He served with the R.A.M.C. from 1915-1918. We wish this faithful Old Kewite many years of happy retirement.

Congratulations to Dr. I. A. Sprague, a former Deputy Keeper of the Herbarium, Kew. He reached his 80th Birthday on 7th October, 1957.

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Major F. R. Long is Chairman of the Eastern Province Wild Flowers Society. This society has taken a lead in the formation of Wild Flower Reserves with the co-operation of the Port Elizabeth City Council and with the Walmer Municipality, plus the Port Elizabeth Divisional Council. He has sent a very interesting article dealing with the Conservation of the South African Flora for publication in our Journal. We hope to include this in the 1958 issue.

Letters from Major Long bear witness to his keenness on this important project. The envelopes are very colourful, being decorated with the beautifully illustrated stamps issued by the Department of Nature Conservation of the Cape Province Administration. These stamps depict examples of the Flora and Fauna of this locality, *Lithops* and *Aponogeton* to mention only two.

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In the summer and autumn of 1957 Dr. N. L. Bor visited several of the Continental herbaria in order to extend his studies of grass types, particularly of Indian grasses. Among the establishments which he visited were the Forskals' Herbarium, Copenhagen; the Botaniska Museet, Stockholm; Thunberg's Herbarium, Upsala; Retzius Herbarium, Lund; De Candolle Herbarium, Geneva; and Lamarck's Herbarium, Paris.

* * *

Professor Rudolf Florin, Director of the Bergianksa Tradgarden at Stockholm, used the Jodrell Laboratory as his headquarters during August whilst visiting England in search of cultivated specimens of rare conifers. It will be known to many readers that Professor Florin is the world's leading authority on the life histories and phylogeny of the *Coniferae*.

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A new edition of J. C. Willis' *Dictionary of Flowering Plants and Ferns* is being prepared under the supervision of Mr. Bullock. Miss E. Chilton is assisting.

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Dr. J. Hutchinson has finished a revision of his two volumes of the *Families of Flowering Plants*, originally published by Macmillans, and the new edition by the Clarendon Press, Oxford, is at present in the press. He has also prepared for Penguin Books, *Wild Flowers in Colour*, which will appear in the spring. He visits the Herbarium almost daily where he continues to work on his version of Bentham and Hooker's *Genera Plantarum*, of which he expects soon to have the first volume ready for publication.

Dr. W. B. Turrill has presented to the Bentham-Moxon Trustees, for the use of the Kew Staff and Visitors to the Herbarium and Library, a valuable collection of reprints which he has assiduously built up over a period of many years.

* * *

The most important work at present in progress at the Jodrell Laboratory is the preparation of a book of reference, in at least 3 volumes, dealing with the microscopical structure of Monocotyledons from all parts of the world. The first volume, dealing with the structure of grasses, is now nearly ready for the Press. It has taken about 8 years to complete this volume, and the author is Dr. C. R. Metcalfe who has been ably assisted by Mr. F. Richardson and Miss D. M. Catling, who have prepared the microscope slides on which the work is based, and by Mr. C. Hubbard and Dr. N. L. Bor, who have checked the identity of the grasses before they were examined.

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As it is our sad duty to place on record the passing of Walter Hackett, we feel that it should be placed on record here that Mr. William B. Latham, Curator of Birmingham Botanic Garden, who left Kew in 1857 and whose portrait occupies the frontispiece in our Journal for 1903, had the proud and, I believe, the unique distinction of sending five of his young men to Kew in the short period of six years. The years of their entry to Kew were:— Sydney A. Skan, 1892; William Hales, 1895; Ernest H. Wilson and Walter Hackett, 1897; and Charles P. Raffill, 1898. All in their respective spheres subsequently made notable contributions to horticulture.

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CONFERENCE NEWS

In September, 1957, the Third Plenary Meeting of the A.E.T.F.A.T. (The Association of Taxonomists working on the Tropical African Flora) was held in Paris at the invitation of Prof. H. Humbert. Kew was represented by Mr. Brenan, Mr. Gillett, Mr. Milne-Redhead, and Dr. Robson, whilst Dr. Wild of Salisbury, Southern Rhodesia, now working at Kew, also attended. About 40 delegates from eleven countries were present and some interesting and valuable discussions were held in a very friendly atmosphere. Monsieur D. Normand is to be congratulated on organising a most successful meeting.

* * *

A joint session composed of Section K (Botany) and Section M (Agriculture) of the British Association was held in Dublin on September 11th, 1957. Under the chairmanship of Professor J. Doyle, the subject was "The Ecology of Grasslands." Mr. C. E.

Hubbard opened with a paper on "Genetical and Ecological Variation" of the Components of Grasslands in the British Isles. The session was attended by Dr. Taylor, Mr. Ballard and Dr. T. Turrill. A full account of the proceedings was reported by Mr. Ballard in *Nature*, November 30th, 1957.

* * *

Mr. E. W. Studley, Director of Parks, Portsmouth, spoke on "The Problems of Horticulture in Seaside Resorts" during the Public Works and Municipal Services Congress. Among the subjects dealt with were the arrest of sand movement and methods of land reclamation.

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Mr. J. W. Watson, Parks Superintendent, Leicester, dealt with "Pot Plant Production" during the East Midlands Horticultural Conference held at Sutton Bonington. Mr. I. S. Wells, Parks Superintendent, Derby, was Chairman of the Session.

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Mr. F. P. Knight, Director of R.H.S. Gardens, Wisley, gave a paper on "Trees for Restricted Places" to the London Branch of the Institute of Park Administration during their One-Day Educational Conference.

* * *

The First International Congress in Park Administration was held in the Church House, Westminster, from 13th - 20th May, 1957. Mr. T. E. Clark, President of the Institute of Park Administration, 1956/57, was the Chairman at the Opening Ceremony. This was followed with a paper by Dr. G. Taylor, Director of Kew, who spoke on "Street Trees and Roadside Planting." At a later session Dr. Taylor took the chair when the only paper given by a member of the Institute came from the Curator of Kew, Mr. W. M. Campbell, who spoke on "Flora Features in Parks."

Mr. W. G. Sheat, Director of Parks, Johannesburg, later gave a paper dealing with "Horticultural Trends in Public Parks."

Other Old Kewites who took the Chair at later sessions were:—Mr. C. B. Creasy, Superintendent of Parks, Pinelands, S.A.; Mr. E. W. Studley, Immediate Past President, Institute of Park Administration; Mr. R. C. McMillan, Director of Parks, Manchester; and Mr. P. W. H. Conn, President-Elect.

The Investiture of Mr. P. W. H. Conn as President of the Institute of Park Administration, 1957/58, took place on 17th May.

On the afternoon of Sunday, May 19th, Congress members visited Kew. Meeting at the Main Gate, the Curator and the Assistant Curators took the delegates in groups through the Gardens.

The following Old Kewites were members of the Conference Committee, 1956-57 :—Messrs. T. E. Clark, P. W. H. Conn, E. W. Studley, C. R. Stock, W. M. Campbell, E. Chantler, F. H. Eul, E. W. B. Gale.

As stated above, the President, the President Elect and the Immediate Past President of the Institute of Parks Administration are Old Kewites. To these we may add Mr. T. S. Wells, who is Vice-President. In addition Mr. W. W. MacKenzie represents the Scotland and Northern Ireland District Branch and Mr. E. W. B. Gale the Southern District Branch. Messrs. F. H. Eul and E. W. Studley are Members elected by Council. Mr. W. M. Campbell is Member of Council responsible for the *Journal of Park Administration*.

The Old Kewites who were among those elected to serve as representatives of Council on Outside Bodies are Messrs. T. E. Clark, W. M. Campbell, F. H. Eul, C. R. Stock and P. W. H. Conn.

* * *

EDUCATION NEWS

Among our number are many who have reached the highest peak in their particular branch of botany or horticulture. This is true of Mr. G. C. Johnson, one of the leaders of horticultural education. From being County Officer for Sussex from 1928 until after 1946, he became Deputy Provincial Director for the Eastern Region, N.A.A.S. He is a member of the H.E.A. Education Committee, is Supervisor of the Examiners for the National Certificate of Horticulture, and is an N.D.H. Examiner. After retiring from the Ministry he took up the post of Advisory Editor to *The Grower*. Present and future students take note that Mr. Johnson's article upon the N.D.H. is therefore valuable and unique. Valuable because no person is better qualified to write on this examination; unique because seldom is such advice put into print.

* * *

Mr. F. Senogles has been appointed to a teaching position with the West Suffolk Education Committee, under which authority he will be carrying out his duties at Newmarket.

Mr. Pemberton is now Lecturer and Organising Instructor in Horticulture under the Worcestershire Education Committee. His work includes teaching at evening and day release centres. Mr. Pemberton is based at the Pershore Institute of Horticulture. The Institute was opened in 1954 and already has a fine reputation.

Mr. J. Boulton, who entered Worcester Training College in September, 1956, has been appointed as Rural Science Master at Sittingbourne East Boys School in September, 1957.

Mr. Cyril J. Mitchelmore has left the staff of the County Institute of Agriculture, Hutton, to take the post of Senior Horticultural Lecturer at the Celyn Horticultural Institute, Northrop, Nr. Mold, Flintshire. This training establishment was opened by the Flintshire County Council in October, 1955, and is in line with the Ministry plan for the establishment of centres primarily designed for horticultural education.

We recall that three who were students at Kew in 1947 are now Senior Lecturers:—Mr. Mitchelmore at Celyn, Mr. C. E. Armstrong at Kesteven, Lincolnshire, and Mr. R. E. Straughan at the Derbyshire Farm Institute. Mr. Straughan entered Kew under the Government Trainee Scheme.

* * *

APPOINTMENTS AND NEWS FROM OVERSEAS

Mr. J. R. James has filled the post of Superintendent of Gardens, Hope Gardens, Jamaica.

Under Mr. W. G. Sheat, Director of Parks and Recreation, a Garden for the Blind has been created in Johannesburg. The official opening was on 25th January, 1956. It is the first of its kind in South Africa.

On behalf of his fellow Councillors and Citizens the Mayor of Queenstown has re-named the Sunken Gardens the "Walter Everitt Gardens." This is a fine tribute and we congratulate Mr. Walter Everitt, the Parks Superintendent.

Mr. G. L. Manger is Assistant Farm Manager at the Rival Training Centre, Asaba, W. Nigeria. His duties involve some teaching. The establishment has 150 acres of oil palm in addition to other commercial crops. A variety of ornamental plants are also grown. Mr. Manger returns home in April, 1958.

Mr. A. Himson is Officer-in-Charge, Rubber Section, Dept. of Agriculture, Stock and Fisheries, Bisianumu. He has written a very full and illustrated account of Bud-grafting of Rubber in Papua and New Guinea. The complete article may be found in *The Papua and New Guinea Agricultural Journal*, Vol. 10, No. 3. January, 1956.

* * *

During the Spring of 1957 Mr. Brian R. Andrews left the Alpine Yard at Kew to take up an appointment with the Edmonton City Council, Alberta, Canada. In a recent letter he stated that he finds his work very interesting. He is responsible for designing parks and open spaces, for the introduction of plant material and for writing pamphlets on topical subjects for public distribution. He finds the people warm-hearted and friendly and good workers. Ninety per cent. of construction work is carried out during the

spring and summer as the ground is frozen from late September until early April.

Mr. L. B. Creasy and Mr. G. A. Davis have been posted as District Horticulturists to the Forest and Public Gardens Dept., Cape Town, S.A.

Mr. C. E. I. Shepherd has left Johannesburg and is posted as Nurseryman to Kitwe Parks Department, N. Rhodesia. The department has been formed recently and Mr. Shepherd feels that there is plenty of scope for development.

Mr. J. D. Cameron has been appointed as Assistant Superintendent of Parks and Cemeteries with the Kampala Municipal Council.

Mr. Godwin Amoah has been appointed as a Horticulturist in the Ghana Civil Service.

Mr. L. N. Prosser has moved to Port Elizabeth as Deputy Superintendent under Major F. R. Long.

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HOME APPOINTMENTS AND NEWS

Those who remember Mr. W. H. Parmentier, foreman of the Temperate House Pits from 1942-1947, will be interested to learn of his progress in commercial horticulture. He returned to his native island, Alderney, and is now successfully operating a five-acre market garden. He is assisted by his wife and brother. The produce is either sold in a small shop which has been established in St. Annes or is marketed through house to house delivery. He has two vans. Among the crops grown are lettuce, marrows, melons, iris, freesias, arums and chrysanthemums.

The next rung in the ladder has taken Mr. J. Halhead from Colchester to Redcar, on the coast of Yorkshire. He has secured the post of Nursery Foreman in the Parks Department. Thus he will be the senior foreman and will deputise for the Superintendent in his absence.

His many friends will be pleased to learn of the appointment of Mr. R. M. Jackson to the post of Superintendent to Feltham Urban District Council. Mr. Jackson has a house in Ashford, Middlesex.

Mrs. N. Smith (née Margaret Cowell) is now engaged in research work at Manchester University. She is specialising in strawberry hybridisation.

Mr. N. Hickman was appointed as Foreman of the Tropical Pits in August, 1956. He entered Kew as an improver in 1951 and returned as a student in 1955.

Mr. A. J. Hale, who entered Kew as a student in 1955, was appointed Foreman of the Temperate House in September, 1957. Included in his earlier training was a one-year course at the Kent Horticultural Institute, Swanley.

Mr. H. Hind returned to Kew for a short period after leaving The Grotto and before taking up an appointment with the L.C.C. Parks Department as Technical Assistant.

Mr. J. Boyle has left Blackpool where he held the post of Glasshouse and Nursery Foreman. He is now Superintendent of Buxton Parks Department, Derbyshire. He has been succeeded at Blackpool by Mr. J. Thomas.

Mr. H. W. Welsh, Superintendent of Open Spaces and Cemeteries, Hampstead Metropolitan Borough Council, has been elected 1957-58 President of the Institute of Burial and Cremation Administration.

Mr. B. R. Savage is now Assistant Superintendent at Clacton-on-Sea.

Mr. F. Constable has left Bolton where he was Deputy Parks Superintendent. He is now Deputy Manager at Sheffield Parks, Cemeteries and Allotments Department.

Mr. R. M. Stuart Brown, formerly Senior Technical Assistant at Manchester, is now Parks Superintendent, Redcar Borough Council.

Mr. P. G. Godley has left Beckenham Parks Department to take up the post of Horticultural Assistant to the County Architect of Derbyshire.

Mr. L. R. Brown was appointed Gardens Superintendent to the Royal Borough of Kingston-upon-Thames in December, 1957. Thus he succeeds the late Mr. G. C. Stedman, whose sudden death occurred on 8th November.

Mr. J. A. Hingston has been appointed Superintendent of Ramsgate Parks Department.

Mr. J. L. Norris, who is serving with The Imperial War Graves Commission is now Superintendent of the South-Eastern Area and is based at Brookwood Cemetery, Surrey.

Mr. D. D. McLachlan is now General Nursery Manager at Messrs. Pennell and Sons of Lincoln. He is finding his work interesting—this includes a trial of Mist Propagation on a commercial scale.

Mr. Peter Rodick, the Playing Fields Superintendent for the County of Derbyshire, visited Kew recently. His brother Robert holds a similar post in Northamptonshire.

Mr. J. Watson, who left Kew in 1948 for Fleetwood, was appointed Superintendent to the Wortley Rural District Council in 1956. Previous to this appointment he was at Pontefract.

Mr. J. E. Farmer was promoted to Superintendent of Parks, Southgate, in 1955.

Mr. T. J. Greatrex is now Farm Superintendent, Mahulu Research Station, Department of Agriculture, N. Rhodesia.

Mr. W. Bury is Superintendent at Grange-over-Sands, Lancs.

Mr. J. Ison, who left Kew in 1947, is now Superintendent at Sheffield under Mr. Sadler. Mr. Ison spent some of his time at Fleetwood before going to Sheffield as an Assistant.

* * *

GARDEN NEWS

The flagstaff, which is 214 feet high, has rotted from its top for about 50 feet. The fault was discovered by a steeplejack engaged on routine inspection and maintenance. The Douglas Fir pole was presented by the people of British Columbia in 1919. As a precaution the immediate area has been roped off. No final decision upon the fate of the present pole has been made.

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Chokushi-mon, the Buddhist Gateway of the Imperial Messenger, has been restored for the second time by Mr. Kumajiro Torii. It was last renovated in 1936.

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The renovation of the Palm House is almost complete. The beds in the central portion have been relined and are being filled with fresh soil. The latter task, together with the replanting, is a major operation but already considerable progress has been made. The response by the plants to the improved conditions has been beyond our expectations. Old Kewites will be interested to learn that one of the most troublesome pests in this part of Kew are "Stick Insects."

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The interior of the Temperate House has been repainted. Owing to the height and span of the roof scaffolding was constructed within the house. The interior was last decorated in 1949.

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After their lonely vigil by King William's Temple for sixty-five years, the two "Francavilla Statues," Apollo (dated 1577) and Zephyr (dated 1576), have been temporarily deposited on loan to the Victoria and Albert Museum, South Kensington. This is the result of a revival of interest in the work of Pierre de Franchevilla or

Francavilla. The two statues were among the thirteen which were shipped over to this country from Italy in an old ex-naval frigate in 1752. For many years they remained in their cases, unopened, "under a shed at Kew." Four of the thirteen, Diana, Flora, Pomona and Syrinx were taken to Hampton Court between 1816 and 1819, and thence to Windsor in 1829, where they remain to this day. The remainder were removed between 1824 and 1830 to Windsor where, during that period, the famous landscape architect Wyattville was laying out the East Terrace Garden at Windsor, the "Ruins" on the south shore of Virginia Water and the "Royal Cottage" grounds, now known as Royal Lodge. Later they were buried or dumped. Some, it has been discovered, were broken and ruined. In 1852, one of the statues, Venus, was dug up and was later presented to the Royal Horticultural Society but, alas, it was to be dumped again and buried, before coming to light again in 1919, this time near Croydon. Venus was finally shipped to America. The "Kew statues," Apollo and Zephyr, were also dug up in 1852. They were presented to R.H.S. by Queen Victoria. Their first home was in the conservatory of the Society's temporary gardens at Kensington. Then in 1882 they followed the Society to its new gardens at Chiswick where they stood in the vinery. Later, in 1891, they were removed to King William's Temple, Kew. Now they have left Kew for exhibition with other important statues already owned by the Museum. Like the "ten little nigger boys," the thirteen Francavilla statues suffered mixed fates, but it is to the credit of Kew that Apollo and Zephyr have been kept in such good condition for so long.

The Francavilla statues are discussed in an article by A. H. Scott-Elliott in the *Burlington Magazine*, XCVIII, 1956, pp. 77-84.

* * *

A major reconstruction is under way in the Orchid Show Houses. A large partitioned Show House is to be built on the site of 13a and 14a, the whole structure being brought in line with the side framing of the Insectivorous House. No. 13b and 14b are to be converted into pits.

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Immediately opposite to this work is the section of the Rock Garden which is also being reconstructed. The altered section is being laid with sandstone thus continuing the policy of gradually replacing the old limestone.

* * *

On May 8th, 1957, Her Royal Highness the Princess Royal planted a Cedar in the garden of Cambridge Cottage. After the ceremony, which marked the 75th anniversary of the formation of the Royal Forestry Society of England and Wales, Her Royal Highness was conducted round the Gardens by the Director. She showed particular interest in the Rock Garden.

His Majesty King Gustav of Sweden visited Kew in May, 1957. He was accompanied on an extensive tour of the Gardens by Dr. Taylor, Mr. Campbell, Mr. Stenning and Sergeant Leaver. King Gustav is a keen plantsman and a knowledgeable Rhododendron enthusiast.

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Mr. A. L. G. Sapper has been elected Secretary of the Ministry of Agriculture, Fisheries and Food Kew Branch of the Institute of Professional Civil Servants.

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The paddock near the Herbarium now echoes with the shouts and exclamations of the Women's Kew Netball Team. In a match with the male students they lost by one goal. However, the team members are in great earnest and will no doubt have many successes to report in future Journals.

* * *

Mr. G. H. Addison, Curator of the Botanic Garden, Singapore, was on home leave this year. Using coloured slides he kindly gave a lecture to the Mutual Society on Malayan Orchids. He described the modern hybrids which were being raised at the station with the purpose of helping the cut flower industry of the islands. Their aim is to produce varieties which have shapely flowers with scent and which last well.

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On Saturday, May 4th, Kew again held an Open Day, when students and members of scientific and natural history societies were taken on conducted tours of the Gardens, the Herbarium and Library, the Museums and the Jodrell Laboratory.

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On Tuesday, June 25th, Kew was visited by the Garden Society. The event was arranged by Sir Frederick Stern and the Assistant Director, the Curator and Assistant Curators were invited as guests. Among the many distinguished visitors were The Hon. David Bowes-Lyon, President of The Royal Horticultural Society; Lord Salisbury; Mr. D. Heathcote-Amory, Minister of Agriculture; Sir Giles Loder; Mr. Kingdon-Ward and Dr. Fox. All were delighted to find that Sir Edward Salisbury was able to be present. The guests were received by Dr. Taylor who entertained the members and guests to tea on the lawn outside his residence. Afterwards the party broke up to engage in an informal tour of the Gardens, the general direction of progress being through the rock garden, over to King William's Temple and round the Temperate House. After a dinner provided by the Society at the Cafeteria an inspection was made of the Arboretum Nursery. As the light failed the company dispersed with a feeling of gratitude that this pleasant and important annual event had been revived.

R.H.S. AWARDS TO PLANTS SENT UP FROM KEW
DURING 1957

Award of Merit :

- 5th Feb. *Prunus kansuensis*.
20th May. *Utricularia alpina*.
4th June. *Roscoea cauleoides grandiflora*.
18th June. *Campanula broussonetiana*.
2nd July. *Datura arborea knightii*.
16th July. *Thunbergia grandiflora*.
30th July. *Liatris spicata*.
13th Aug. *Begonia coccinea*.
13th Aug. *Cynara cardunculus*.

Certificate of Cultural Commendation :

- 20th May. *Dorstenia bornimiana*.
20th May. *Utricularia alpina*.

Botanical Certificate :

- 19th Feb. *Richea dracophylla*.

Preliminary Commendation :

- 22nd Oct. *Veltheimia deasii*.

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Mercury vapour lamps have been installed in house 18C in the Melon Yard for the irradiation of certain tropical plants. The main interest of the experiment lies in the fact that lamps of this type have seldom, if ever, been used for the irradiation of plants from the tropics. The object of the experiment is to promote more active growth and to improve the general vigour and health of the plants during the winter, when the normal daylight is inadequate. Supplementary light is being given daily from 8 a.m. to 8 p.m. from October until March. A very striking improvement in the growth of some of the plants, especially seedlings, has already been obtained, and a photographic record of their progress is being kept. The experiment is being conducted by collaboration between the respective staffs of the Jodrell Laboratory and the Tropical Department. The detailed record of the experiment is being kept by Dr. M. Y. Stant.

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Readers who may have seen photographs in the horticultural press of abnormally large cabbages and other plants produced by treatment with gibberellic acid will be relieved to know that our glasshouses in the Melon Yard are still intact, in spite of the fact that Dr. M. Y. Stant has been dosing some of the plants in them with this remarkable growth stimulant. Special attention was devoted, during the summer of 1957, to spraying fibre-producing plants with gibberellic acid in a 1 per cent. aqueous solution.

They grew much taller than untreated controls, but the plants were narrower and the development of their lateral buds was inhibited.

Mr. S. A. Pearce is conducting experiments in which various seeds are treated with gibberellin, the aim being to study the effect which this has on breaking seed dormancy. The substance is prepared from *Gibberella fujikuroi*, a fungus discovered by the Japanese over 30 years ago.

* * *

A recent calculation shows that there are now about 20,000 microscopic slides in the reference collection at the Jodrell Laboratory. The orchid collections in the Herbarium consist of approximately 75,000 sheets and 6,770 bottles in liquid preservative. Drawings, photographs, etc., in the collection number approximately 15,000.

* * *

During the spring of 1957 a dead area was noticed in the bark of the fine specimen of Turkey Hazel, *Corylus colurna*, near the Ferneries. Upon investigation it was discovered that the whole of the north side of the trunk from ground level to a height of five feet was affected. The bark and the dead tissue was removed and the edge of the affected area cut cleanly to living tissue to promote a healthy healing effect from the cambium. The exposed wood was then treated with a bituminous product which contained copper sulphate, thus giving the dressing a fungicidal property. Active healing is already apparent.

The historic specimen of Turkey Oak, *Quercus cerris*, only 60 yards distant was treated in a similar manner for the same trouble—again on the north side! Again the treatment has been successful. This latter specimen was planted in 1762. It is 90 feet high with a 15 feet girth.

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A large bed of the new Floribunda Rose, *Queen Elizabeth*, planted by the entrance to No. 15 proved a great attraction to visitors.

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During a storm on Sunday afternoon, May 12th, 1957, a 65-foot *Taxodium distichum*, growing at the water's edge on one of the islands in the Lake, was struck by lightning. With the exception of the butt-end and 3 feet of the lower part of the trunk the whole tree was blasted to fragments which were so small that a child could have picked up any one piece. Some of the debris was at least 100 yards from the site of the damage.

Later in the season a 58-foot *Robinia pseudacacia* near the Cafeteria was struck. On this occasion the head of the tree was completely ruined.

A large *Amelanchier canadensis* growing in the *Rosaceae* collection had been unhappy for several years and some decay in the roots was suspected. It was finally removed this year. Among its decayed roots 151 larvae of the Staghorn Beetle were unearthed.

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A plant of *Vandopsis lowii* (Schlechter) flowered at Kew during the autumn of 1957. The one spike produced was 6 feet in length and consisted of 27 flowers. This specie, which hails from Borneo, was last flowered at Kew in October, 1930. As is usual with this plant, the first two flowers were yellow with reddish purple blotches. The remainder were cream with red blotches.

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Labour saving methods and machinery are being constantly sought after by the Gardens. The promise shown by earlier attempts to control Ground Elder and Brambles by spraying with hormone preparation 2.4.5.T. has not been maintained. In addition a considerable amount of distortion occurred among the neighbouring trees and shrubs as the result of vapourisation. Fortunately the spraying was very restricted and confined to areas well away from the collections. Distortion occurred on the foliage of one *Ailanthus* to a height of thirty feet. One therefore questions the advisability of using this material on a site covered by a varied collection of plants.

* * *

The weather over the past year has been featurised by the abnormally mild winter and early spring, and by the prolonged drought of the late spring and early summer. The year opened with the early flowering *Rhododendron nobleanum* expanding its rose-pink blossoms under ideally mild conditions until, by the end of January, the bushes were reminiscent of the colourful splendours which one associates with Rhododendrons in June. The *Hamamelis spp.*, *Sarcococca spp.* and *Erica carnea* varieties flowered perfectly. The *Rhododendron mucronulatum* displays were worthy of special note. *Cornus mas* flowered much earlier than usual and was in full display by the first week of February, together with *Viburnum tinus* and *Abeliophyllum distichum*. At this time also the first Crocus were out and *Crataegus monogyna* was in an advanced stage of leaf-break. On Sunday, February 10th, *Prunus cerasifera*, the *Myrobalan Plum* was in blossom, but with a northern air stream there was a chill in the air which contrasted sharply with the mild weather previously experienced.

This cooler weather culminated in severe frosts on the 17th and 18th February and the early displays, especially those of the Rhododendrons, were severely damaged. But the higher temperatures soon returned and once again the early season developed with the crocus in full display by 1st March. The Forsythias were very good and worthy of special note. The first

Magnolia Campbellii blossom was out on 14th March but only a few flower buds were produced, perhaps owing to the wet growing season which had been experienced in 1956? Of the Rhododendrons in the Oak woodland, *R. strigilosum* flowered perfectly through the mildest March on record, only to have the young growths caught by a frost occurring on April 14th. This frost also damaged many of the later flowering Rhododendrons, e.g. *R. obtusum* varieties. Again, almost a month later, many Rhododendron species which are regarded as "safer" than those which bloom earlier were singed by frost. The displays from *Rhododendron ambiguum*, *R. concinnum* and *R. rubiginosum* were completely ruined. A plant of *R. yunnanense* growing within a few yards was unharmed and laid emphasis on a generally acknowledged fact, that it is a first-class plant and is hardier than many others. Many young *Rubus* growths were also harmed by this frost, e.g. those of the *R. parviflora* and *R. odoratus*. In late May, *Rhododendron Falconeri*, growing in the Oak woodland, flowered to perfection. *R. sino-grande* also flowered in this area. The display in the Rhododendron Dell was not as colourful as usual. The reason appeared to be due largely to the early season, this causing an irregular opening over an extended period rather than a shorter and more spectacular display. *Koelreuteria apiculata* flowered well in August but, on the whole, the displays from the late spring and early summer flowering subjects was disappointing.

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Plans have been made for the rearrangement and enlargement of the Specie Rose Collection. New beds are being formed on the western side of Holly Walk. A new site has been selected for the Philadelphus collection. The *Ribes* collection is also to be renewed and, in preparation for this, the Nursery is at the moment carrying a large stock, including many species which are new to Kew. The Nursery has thus been faced with the task of propagating three complete collections—the Roses, Philadelphus and *Ribes*.

A restricted planting has taken place among the *Crataegus*, *Malus* and *Prunus* collections. The replanting of a section of the Cistus Border was undertaken earlier in the year. It must also be recorded that twenty-five Beeches were planted, with a view to providing a succession as the older trees are felled.

In early March over 200,000 Snowdrops were planted in drifts by the walk through the Queen's Cottage Grounds. A few Winter Aconites were among them. Primroses were also planted in this area. The light gravelly soil was replaced by heavy loam for this operation.

* * *

The Winter's programme in the Arboretum includes repair work on the Western end of the Lake. The eroded banks are being made up with pit props and clay. A very limited amount

of repair work has also been necessary on the Eastern end, but the main part of this extensive but interesting work was completed at the end of last winter. Recent observations have shown how quickly this latter end becomes silted up during leaf-fall. The length of the lake lies in direct line with the prevailing wind and a heavy quantity of leaves drift up to this corner. A daily clearance of submerged leaves was found to be necessary in order to maintain the depth of water, which had been gained during the previous winter by excavations of the accumulated mud. Mention should also be made of a new arrangement whereby the garden staff is responsible for controlling the level of the lake.

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Gardeners will be interested to learn that the most efficient tool for cleaning submerged wrecks of most types of seaweed has been found to be a pair of garden shears.

* * *

A Stop Press item from Mr. Nigel Hepper who left on a plant hunting expedition in July, 1957:

"I landed at Lagos on 2nd October and went to Ibadan where I had an interesting few days meeting people there in the University and connected with the Forestry Dept. and Research side, including seeing the Forestry Herbarium. The rains were very late finishing so I had a tricky time getting to the Northern Region, being stuck in muddy roads and so on. Then for nearly three weeks I collected on the Jos Plateau, a little longer than I intended as the rail crash held up my equipment. However it was most interesting just at the end of the rains at 4,000 feet. At the end of October I went another 300 miles by lorry right across the N. Region of Yola and then into British Cameroons, Adamawa Province, with more than 20 carriers trekking in the mountains. This was most fascinating as the area is un-mapped and little known. The highest point is Vogel Peak which I climbed, as far as I know, for the first time. It is about 6,000 feet and I was able to collect a lot of specimens I hope will prove to be interesting.

"Tomorrow I go off on the next stage, trekking with carriers as there are no roads. This time I will be still further south on the Mambila Plateau and eventually linking up with the road in Bamenda Province, which I shall leave at the beginning of March. Finally there are visits to Ghana and Sierra Leone before I return in the middle of April."

NIGEL HEPPER.

Yola. 7/1/58.

* * *

Overheard at Kew.—Of *Lophophora williamsii*.

"This is the cactus which if you eat it you see everything coloured and confess all your sins."

CHRONICLE OF AN OLD KEWITE

Being extracts from the Memoirs of William Dallimore, sometime Keeper of Museums and upon whose suggestion *The Kew Guild* originated.

LIFE AND WORK AT KEW: 1901-1905.—THE ARBORETUM.

I returned to the Arboretum as foreman on August 1st, 1901, and immediately afterwards both the Director and Mr. Bean went away for holidays. At this period the distinct duties of Curator and Assistant Curator were newly defined. The Curator was to confine his activities to the glass-houses, Decorative Department, Herbaceous Ground and Rock Garden, while the Assistant Curator was given entire charge of the Arboretum with all other trees and shrubs, and most of the grass and paths about the place. From 40 to 50 acres of the Decorative Department were added to the Arboretum with several small areas of ground and a number of trees outside the actual boundaries of the Gardens. It was recognised that the change would increase my work and I was informed that if, after a trial, I found it to be too much for me, I would be given an assistant. I looked after the enlarged department for nearly eight years but did not get the assistant, neither was I paid any more for the work than I received when I had charge of the Temperate House. The definition of duties for Curator and Assistant Curator placed me in an awkward position. I was nominally the subordinate of the Assistant Curator, but there were overlapping duties some of which were decidedly under the authority of the Curator, therefore I had to work with discretion. However, Mr. Bean was alive to the fact and did not make difficulties.

An idea of the work entailed by the enlargement of the department may be gathered from the fact that, although Bean was responsible to the Director for all that went on and attended to correspondence and the botanical work connected with the collections, the management of men, lay-out of work, upkeep of plant collections, labelling and general supervision was the work of the foreman, and when Bean was away he took entire charge. During my period in charge of the Arboretum Mr. Bean was sent abroad on a number of missions which sometimes covered a period of several weeks. There was a minimum staff of 74 men and boys, and at times between 80 and 100 were employed. Five horses and a pony were kept for haulage and mowing, and very often during winter and early spring there were one or two hired horses. In addition to the organisation of work being in the hands of the foreman he was responsible for the care and safety of all tools. In the past there had been a monthly check of tools but as the increase in the size of the department added another tool shed to my care, a mile from the main one, I gave my two sub-foremen instructions that one of them was to check over all tools every Saturday afternoon and report anything that was missing to me on

Monday morning. I then sent a ganger to search for lost articles. Lost tools could be looked for under bushes where men had placed them to save going to the proper place and had not troubled to reclaim them. The ganger usually had an idea who the culprit or culprits might be and I could very well leave him to settle the account. As there were upwards of 1,200 articles on our tool list—many of them used over 288 acres of ground—it did not pay to be complaisant over anything that was missing. By the weekly check we usually made a good showing at the annual tool audit.

In addition to work in the Gardens certain work on Kew Green had to receive attention. The department was responsible for the care of a few old trees in the village that grew on Crown Land and for the trees along the Gardens' side of Kew Road. There was also an area of ground between the Gardens and the Thames to be kept tidy, and the ha-ha between the Gardens and the towing path to be kept clean, the banks mown and the trees maintained. What with one area and another work was spread over a much more extensive area than the 288 acres comprising the Gardens. The ground along the river outside the Gardens, was controlled by three bodies. The towing path and river bank was looked after by the Thames Conservancy—later the Port of London Authority; Richmond Corporation had charge of the gravel path, and H.M. Office of Works controlled the strip of land outside the Gardens' wall and the ha-ha, the whole running for about two miles. The Gardens came into the business by the Office of Works paying the authorities a certain amount for maintenance. It was a bad deal for us as the amount allowed was barely enough for ordinary upkeep, while after a high tide it was not unusual for one or more breaches being washed out of the banks of the ha-ha which were costly to repair. I believe that in after-years the ha-ha was handed back to the Office of Works.

To help me I had two sub-foremen, eight gangers and a head carter. One sub-foreman was also propagator. He took charge of the nurseries and helped with ground alterations and planting in winter. The other sub-foreman was timekeeper, label writer and seed collector, so neither of them had time to help with general supervision. The head carter lived over the stables and he was responsible under me for the horses. The gangers were leading workmen and were held more or less responsible for the work of the men. They were all good workmen, and they were very useful for teaching new men the use of the tools and for carrying through all kinds of ground work but, with one or two exceptions, they were not good disciplinarians, and the foreman had to be constantly on the alert to check irregularities. In the winter time, when men were working in good sized gangs, it was not too bad, but in summer, when they were spread all over the place, often in pairs, it was an arduous task. I soon found that it was fatal to adopt a regular round and during and after the time of the Boer War the men called me De Wet, the name of the Boer General who was constantly surprising the British by turning up in places where he

was least expected. The Curator gave me the information. His son was sent to work with me as an apprentice and the story he told his father was: "We call Mr. Dallimore De Wet because we never know where he is. He comes to look over our work, stays a short time, then goes away. We watch him off and think that we are all right for a couple of hours but after a short time we may look around and find him coming again from quite a different direction." As I worked with many of the men in my earlier years I knew something about their several peculiarities and which of them needed most attention. Many of them were excellent men who worked well without constant supervision, but there were others who shirked whenever an opportunity offered. A favourite scheme was to forget a tool and have to pay a visit to the toolshed. Not one of them, however, presumed on our earlier acquaintance when I worked side by side with them, and I think that they appreciated the fact that I had done hard work and could handle tools with any of them.

When the additional ground was added to the Arboretum a number of labourers were transferred with it, and it was suggested to me that I should move the men about from one part of the place to another to get old and new intermixed. I did so but found out first where those involved lived, and arranged the change so as to save them as much walking as possible. It was quite easy in that way to save them at least two miles a day in their walk to and from work. But they resented it; the two groups did not mix very well and at times there was trouble. Men from each end of the place thought that they were in disgrace when they were transferred and asked me what they had done wrong. In fact they complained more about that than about their work and I had to tell them all kind of fairy tales to get them to settle after a move. In the end I took to making frequent changes in order that they should not get to think that they had a right to work in one place rather than another. I was not long in finding that the men from the Botanic Garden end of the place were less competent at hard rough work than those from the Pleasure Grounds, and they were not pleased when tidying up gave place to spade work and grubbing trees. Some of them were much addicted to paying visits to what they called the "rear," a little game that had to be stopped. They actually went away for a smoke.

During the winter of 1901-02 a good deal of work became necessary about one of the museums owing to alterations to the building. The museum was used to display Colonial and Dominion timbers. It had originally been an orangery and in the ends and one side were large and high windows. From these view-points it had a pleasing effect but the back was an ugly dead wall. Against it there was a shed that had been used as a messroom and toolshed for the Botanic Garden. More room was required for museum specimens, therefore it was decided to build a messroom and toolshed elsewhere, pull down the old sheds and add an annexe to the timber museum. The back had been masked by

a dense shrubbery in which were some well grown trees taller than the museum, and all the best of the trees and bushes had to be drawn forward about twelve feet in order to leave the shrubbery much as it was before. All had to be moved with heavy masses of earth attached to the roots. Had there been more space it would not have been difficult but we were cramped for room and great care was required to avoid accidents. As we knew little about the capabilities of some of the new men for such work, Bean suggested that it might be a good plan to draw all the leading men needed for the work from the Arboretum so that there was a nucleus of men we knew something about. I acted upon the suggestion but it was the first time that a combination of men from different parts of the place had been tried for an important job and, although it worked well in some ways, I had some difficulty in keeping peace. The Botanic Garden men thought that it was an insult to them bringing men from the Arboretum to help with the work. However, we got through the job without an accident and it gave the Botanic Garden men confidence, as there was a legend that they never moved a large tree on the big transplanting machine without someone being injured.

During that winter we finished clearing up dirty, untidy places about the grounds; hitherto winter work had been more or less confined to the renovation of tree and shrub collections and landscape work. There were places about the grounds that were used as rubbish dumps, heaps of decaying leaves, several places that were used for burning rubbish, and areas enclosed by low laurel hedges where there was nothing to protect. The Director had all swept away. Leaves retained for leaf mould must be stacked in the two service yards. Any refuse that would decay had also to be stacked in one of the yards, whilst rubbish that must be burnt must go to one of two burning places, the chief one in the Queen's Cottage Grounds where the fire rarely went out, the other in the service yard near the Palace, but that could only be used when the wind was from the north or east. Public conveniences were also enlarged and brought up to date. All this work materially improved the grounds, and an additional attraction was the planting up of what had been untidy areas with bulbs that would naturalise. For many years part of the early autumn work was planting many thousands of bulbs, chiefly varieties of narcissus and crocus, in the grass. Some varieties of narcissus died out after a few years but there are masses, particularly of "Emperor" and "Empress" that were planted fifty years ago that still flower profusely.

During the winter of 1901-02 we began a very tiresome job that lasted five men four winters. At one time a gravel path ran the whole length of the Syon Vista and, when it was grassed down a very thin layer of soil was spread over the gravel to receive the seed. It was very unsatisfactory as the grass over the old path turned brown after a few sunny days. Therefore, it was decided to remove the turf, screen the gravel, make up the deficiency with

refuse heap soil, and relay the turf. It was very tedious and little could be seen for it. By hard and continuous work it was difficult to do more than 125 yards during the winter. It is a mistake to skimp a job in the first place; there is always trouble later.

Every autumn brought work in the collections of trees and shrubs, taking out nurse trees, respacing permanent specimens, taking in extra ground, and making additions from the nurseries. The sub-foreman from the nurseries took a leading part in such work.

By this time the Director had turned his attention to the uniform section of the staff. One of his first actions was to have himself appointed Inspector of Constables and get himself a suitable uniform. He, however, found himself in a quandary. He wore a beard and all the other constables had to be clean shaven except for a moustache. For a few months he wore his uniform on inspection and kept his beard, but the beard suddenly disappeared and he appeared shaven as did his subordinate staff. His first work as inspector was to rout the constables' huts at the gates. They were properly cleaned and repainted, then woe betide a man if anything was found dirty or out of place. They had been in the habit of picking up dead wood for lighting their fires and each one had a small stack behind his hut, but that was untidy and must go, and I had instructions to send seven bundles of fire-lighting wood to each hut once a week when I sent the weekly supply to the offices. Wood cutting was a wet weather job for my men.

I was made responsible for the cleanliness of the paths but I had great difficulty in keeping them tidy, particularly in autumn as, if the Director saw men sweeping paths, he soon wanted to know "whether I had not got something better for them to do than tickle three or four leaves about with a broom." It was usually safe to carry out such work until ten-thirty in the morning, and I contrived to get through as much as possible before that hour, but I was sometimes caught. He did not like to see untidy paths but he could not bear to see men working on them, neither did he like to see men raking fallen leaves on lawns.

* * *

Overheard at Kew.—In the Cactus House, No. 5.

"They don't have to have any water at all; they live in the desert."

"They only have to be watered every seven years."

"These are the cacti that flower at night. They do this to escape the insects that wish to fertilise them."

In Memoriam

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

Alfred, Lord Tennyson.

G. C. STEDMAN

With regret we record the sudden death on 8th of November of Mr. George C. Stedman, Parks Superintendent at Kingston, Surrey. He left Kew, after a student gardener's training, in 1930 for the Parks Department at Hull. Among the many fine examples of his work at Kingston are the beds in front of the Guildhall and in the Garden of Remembrance. Under his direction the parks and gardens of Kingston have been made beautiful, while the colourful displays were a sure indication of much good taste, good organisation and forethought.

Our deepest sympathies are extended to his wife and daughter.

L. G. RILEY

Leonard George Riley, whose death occurred at Toronto on Christmas Day, 1956, was born at Newport, Isle of Wight. He was educated at Hertford Grammar School and subsequently trained at Oaklands College, St. Albans, before entering Kew. In 1939, on leaving Kew, he went to the Niagara Parks Commission as an exchange student and after gaining the Niagara Parks Diploma he joined the R.C.A.F. in which he served as a Navigator. Discharged in 1944 as unfit for further flying he returned to the Niagara Parks Commission where he became an instructor in their School for Apprentice Gardeners. The following year he was appointed Forestry Superintendent for the Ontario Department of Highways, which post he held at the time of his death. The last major tree planting project for which he was responsible was that on No. 400 Highway, between Toronto and Barrie (Ont.).

He took a great interest in the "Men of the Trees" organisation and for the last five years was editor of their Bulletin. A member of the International Shade Tree Association, he had attended the first conference of the Canadian Chapter last August. Several other societies claimed his attention, including the Ontario Parks Association, the Niagara Parks Alumnus, and the Ontario Gardeners and Florists Association.

He was 40 years of age and leaves a widow, two sons and a daughter. We extend our sincere sympathy.

DONALD F. RILEY.

GEORGE MILLS

On March 5th, 1957, New Zealand lost one of its most skilled horticulturists in the person of Mr. G. Mills. After working in a noted private garden he entered Kew in 1898. In 1900 he moved to Messrs. R. H. Bath, Ltd., of Wisbech and later to Messrs. Dobbie & Co., of Rothesay. Eventually he took over the management of Messrs. Bees Ltd., at Mill Street, Liverpool. Emigrating to New Zealand in 1908, he became Horticulturist in the Government Experimental Station at Waikato. He then joined the staff of the *Auckland Star*, a daily evening paper, as Horticultural Editor. His gardening knowledge was encyclopædic and up to the time of his death he took a keen interest in plants. As a judge for horticultural shows and gardens his services were much in demand for he was very well known in the gardening circles.

He was in his 82nd year, leaving a wife, four sons and four daughters. He was a devoted father and as a staunch friend his death is regretted.

F. S. SILLITOE

Regretfully we record the passing of Mr. Frederick Sampson Sillitoe, M.B.E., A.H.R.H.S. He died in hospital on 4th December, 1957, being 80 years of age. After training at the famous house of Veitch he entered Kew in 1901 and became sub-foreman in the Tropical Pits. In 1903 he left to take over the Palace Gardens, Khartoum, as Director of Gardens. (It was here that General Gordon fell in 1885, only 18 years previously). Of his work through the 27 years in which he remained at this post we can do no better than to recall part of the late Major T. E. Chipp's tribute when Mr. Sillitoe was the Guild's President in 1931.—“Yet under these desolate conditions our President has worked his way, and those who today wander over the beautiful lawns of the Palace Gardens under shady trees and palms, enjoying the borders and beds of the beautiful flowering plants realise what a debt is owed to the perseverance of Sillitoe.” In 1927 he received the M.B.E. for his services in the Sudan. In 1931 he went to Malta as Horticultural Officer and remained there for 18 months.

Of his 25 years of retirement let it be recorded that he lived very close to the Gardens and that he lost no opportunity to help Kew and the Guild and spared no effort whilst doing so. This help ranged from service as a committee member or as an auditor to the very practical task of addressing envelopes in preparation for the distribution of the Journal.

The cremation took place on 10th December, 1957, at Mortlake Crematorium. This service was taken by the Rev. Canon B. J. Harper, a great friend of Mr. Sillitoe's and who, like him, had spent many years in the Sudan. A number of old and present Kewites attended the service, and on behalf of the Guild a wreath of orchids was sent. The following were present:—Dr. Bor,

Messrs. Campbell, Stenning, Pearce, Preston, Hubbard, Blackburn, Lavender, Osborne and Harding, Drs. Howes and Hutchinson and Miss L. Wells.

We extend to his widow and daughter our heartfelt sympathy in their sad loss.

W. E. GRAY

William Everatt Gray, A.R.B.S., R.M.S., joined the office staff at Kew in 1942 and was there for six years. Later he was transferred to the Ministry's Offices at Tolworth, and was within a few months of his retirement at 65 when he died on February 24th, 1957, after a painful but mercifully brief illness.

He was over 40 when he took up sculpture in wood and ivory in his spare time, attending evening classes at the Polytechnic School of Art in Regent Street. His works were exhibited in The Royal Academy, The Paris Salon, The Royal Scottish Academy, The Royal Miniature Society, The National Society, and at many Exhibitions. He was an Associate of the Royal Society of British Sculptors and a member of the Royal Society of Miniature Painters, Sculptors and Gravers, of which latter society he was the Hon. Treasurer at the time of his death. One of his sculptures, in yew, entitled "The Third Day" (of Creation) is in the Museum at Kew and another, in copal resin, is in the Museum of Botany. He loved the Gardens and had a wide circle of friends there.

MARJORIE GRAY.

H. TEMPLE POWELL

Mr. H. Temple Powell died last year at the advanced age of 90. He left Kew in 1887 after being a student for three years. After working for a time in Yorkshire he returned to open up a florists business in Wimbledon. In 1894 he started a nursery in Twickenham and this he carried on successfully until 1939. His frontage in the main road was then sold to the council. After the war he lived in retirement.

We offer our deepest sympathies to his wife, Louisa M. Powell. They were married in 1903.

R. S. LYNCH

It is with regret we record the death of Mr. R. S. Lynch at the home of his sister at Plympton, Devon, on the 28th June, at the age of 68. Born at Cambridge, he was educated at the Perse School, afterwards going to France to take up landscape architecture and later to the Coombe Wood Nursery of Messrs. Veitch & Son. He entered Kew in October, 1912 and, on leaving, was preparing to start landscape architecture on his own. When

the 1914 war broke out he joined the University and Public School Corps, became sergeant, quarter-master sergeant and, finally, lieutenant in the Essex Regiment. After the war he was a Horticultural Officer with The War Graves Commission in France. In November, 1928, he went to Dartington Hall to commence a commercial nursery on the estate, building up a fine collection of plants. With the coming of the second world war and the compelling need for food, he was prepared to restrict the nurseries to the minimum required in similar nurseries but not for the sudden demand from the local authorities to close down absolutely. He never recovered from this blow and in the autumn of 1942 arthritis gradually deprived him of the use of his limbs, but never his mind. He left Dartington only a few weeks before he died, grateful to all that had helped to ease his invalid years and to make his stay there such a happy memory.

To his sister we extend our deepest sympathy.

F. G. PRESTON.

JAMES LAMBERT

Mr. J. Lambert died in a local nursing home near his home at Ormond Beach, Florida, on 27th March, 1957. He was 74 years of age. Five years earlier he had retired after holding the post of Superintendent of the University of Pennsylvania Botanical Gardens for 42 years.

Mr. Lambert was born in Sevenoaks, Kent, and began his gardening career under his father who was head gardener to Mr. Tubby, a Harley Street surgeon. This gentleman persuaded Lambert to enter Kew at a Student Gardener. In 1908, after being Assistant Superintendent of the University Gardens for one year, he became Superintendent.

In April, 1956, Lambert re-married. His wife, Grace, shared much of his interest in plant life. He was laid to rest alongside his earlier wife and close to the gardens he had served for so long and so faithfully.

Survivors include his wife and a sister, Mrs. George Ford of London. We offer our deepest sympathy.

G. J. W. FORD,

(The funeral service was attended by his nephew, G. J. W. Ford, an old Kewite.—Ed.)

WALTER HACKETT

It is with sincere regret that we record the passing of Mr. Walter Hackett, who occupied the post of Curator of Liverpool Botanic Gardens from 1906 to 1935. He died on the 21st May, 1957, nine days after his 83rd birthday. Mr. Hackett entered Kew as a young gardener in September, 1897. In January, 1899, he was

promoted sub-foreman of the Fernery Department and later transferred to the charge of the Tropical Propagating Pits. In July, 1901, on the appointment of Mr. Watson to succeed George Nicholson as Curator, Mr. Hackett was given the then new post of foreman, afterwards Assistant Curator, of the Tropical Department.

Mr. Hackett left Kew for Liverpool in May, 1906, and remained there for nearly 30 years, retiring in 1935. Through his energy and skill during his tenure there the indoor collection of plants was considerably enlarged and extended in species and varieties, notably the collection of Orchids, Ferns and economic plants. An extensive display of Hippeastrums each year in spring annually attracted crowds of visitors on the Sundays when in flower.

Mr. Hackett married a Kew lady, Miss E. Pring, a daughter of William Pring, the founder of the Kew Boys Cricket Match which for more than fifty years has been played on Kew Green. It is a notable event in the lives of the Kew schoolboys and is still played annually on a Wednesday afternoon in late July. Mr. and Mrs. Hackett celebrated their Golden Wedding in January, 1953. Mrs. Hackett predeceased her husband by nearly two years. They leave two children to mourn their loss. Robert is on the staff of Hillingdon Hospital and Agnes is Headmistress of one of Liverpool's largest Secondary Primary Schools.

A. OSBORN.

W. H. PAINE

We record with regret the sudden passing of Mr. W. H. Paine, J.P., Dee Why, N.S.W., at the beginning of January, 1954. We in Australia have lost a valued member of the small band of Kewites who live in this country.

Horace (or Billy to his close friends) Paine was in his 70's and left Kew in October, 1905. He obtained a position with Tully Nurseries, Kildare, Ireland, and collected in the European Alps for them. During the 1914-1918 war and immediately afterwards, he "worked for the Government."

Migrating to Australia, he investigated substitute food-stuffs as Superintendent of the New South Wales Foods Industry. In 1927 he was suddenly stricken with Polio, and with 3 years to live he bought Mt. Iris Nursery, which soon was known throughout Australia as a source of good plants.

When World War II came, he supplied millions of Sweet Potato and Onion sets for the American vegetable plantations throughout the Pacific. Rhubarb in quantity was also grown for freezing and then despatched by air to U.S. Pacific troops. After the war the nursery was re-established along traditional lines, with a special emphasis on Camellias, Fuchsias, Begonias and Zonal Pelargoniums.

I had the pleasure of meeting Horace Paine in 1952 and on other occasions and despite being confined to a wheelchair for 22 years, I met an enthusiastic gardener, keen on hearing the latest news on matters horticultural, bright in conversation and spirit, and delighted to talk to a fellow Kewite. His happy smiling face and cheery news letters will be missed by all those who were fortunate enough to receive them. He is survived by his widow to whom we extend our sympathies.

T. R. N. LOTHIAN.

A. J. THORNTON

The death of Archie Thornton occurred unexpectedly on October 19th, 1957, aged 63. He had been about his business as usual the previous day, and was stricken with a heart attack on awakening.

Born in Chester, July 6th, 1894, he entered Kew in April, 1919, after seeing active service in World War I. He left Kew, April, 1922, to serve as Assistant in the Botanical Department at Hong Kong. After a short term he returned to England, and emigrated to Canada in 1925; entering the United States the following year. He filled various positions as rock garden specialist, then for a few years was Horticultural Instructor at Lowthorpe School of Landscape Architecture, and at Barnard College.

For the past 17 years he had conducted his own nursery and landscape business in Poughkeepsie. He was author of *A Rock Garden Primer*; had written articles on the subject, and was a frequent lecturer at Garden Clubs. Recently he had conducted courses in Horticulture at local schools, and at the New York Botanical Garden.

He is survived by his wife and daughter; also by his mother and a brother at Chester.

Five Old Kewites served as honorary pall bearers:—J. H. Beale, H. E. Downer, M. Free, J. B. Reardon, H. W. Swift.

H. E. DOWNER.

ROBERT CAMERON

The death of this notable Kewite, in his 98th year, occurred on August 29th, at the home of his daughter in Winchester, Mass.

He was born February 27th, 1860, in Inverness-shire; entered Kew in 1884, and left in 1887 for the United States. For a year he was employed on the famous Hunnewell estate at Wellesley. In 1888 he was appointed Curator of the Harvard Botanic Garden, a position he filled with distinction for 31 years.

In 1919 he became Superintendent of the Richard T. Crane estate at Ipswich, Mass., where he was most successful in general

estate management. He retired in 1934 to live in Cambridge, Mass., and devoted time to real estate interests.

Until his retirement he was very active in Horticultural circles in the Boston area. For several years he was Boston correspondent of the trade journal, *The Florists Exchange*. He contributed articles to garden publications, and assisted in the preparation of *The Garden Month by Month*, a most comprehensive book dealing especially with hardy herbaceous perennials.

He always had a lively interest in Kew and Kew men who crossed his path through the years.

H. E. DOWNER.

A. P. BASS

Arthur Percy Bass died in Oxford on April 16th, 1957, aged 57. He was a native of Richmond and I believe started as a boy in the Tropical Department. Most of his time as a student gardener was spent in the Ferneries. Leaving Kew in 1922 he went to Cambridge Botanic Garden, and after a year or so there went on to Oxford Botanic Garden as foreman. From there he went into a local Nursery and later to the Grounds of the Oxford Crematorium. He married so recently as 1956 and to his widow we offer our deepest sympathy.

G. W. ROBINSON.

It is with regret that we have to record the deaths of Charles Snow and S. G. Sayers. We would all prefer to include a worthy record of these Old Kewites and any others who have passed away and would welcome any information upon them.

KEW STAFF LIST

(as on December 31st, 1957)

* Life Member of The Guild.

† Formerly a Student Gardener.

	<i>Entered Kew</i>
DIRECTOR'S OFFICE	
Director	G. Taylor, D.Sc., F.R.S.E., F.L.S., V.M.H. 1956
Assistant Director (Senior Principal Scientific Officer).....	*N. L. Bor, C.I.E., O.B.E., M.A., D.Sc., F.L.S. 1948
Establishment Officer.....	J. H. Crossman..... 1957
Clerical Officer/Secretary.....	Mrs. A. M. E. Kendall..... 1947
Clerks	Mrs. L. A. Kell..... 1948 Miss C. M. Newall..... 1952 Miss F. V. Surplice..... 1954 Miss J. Lane..... 1957
Telephone Operator.....	
HERBARIUM AND LIBRARY	
Keeper (Senior Principal Scientific Officer)	†C. E. Hubbard, O.B.E., F.L.S..... 1920
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
" " "	E. Milne-Redhead, T.D., M.A., F.L.S..... 1929
" " "	R. Melville, B.Sc., Ph.D., F.L.S.... 1934
" " "	R. W. G. Dennis, B.Sc., Ph.D..... 1944
" " "	A. A. Bullock, B.Sc., F.L.S..... 1929
" " "	J. P. M. Brennan, M.A., B.Sc., F.L.S. 1948
" " "	J. B. Gillett, M.A., F.L.S. (Colonial Office)..... 1948
" " "	*J. R. Sealy, B.Sc., F.L.S..... 1927
Senior Scientific Officer.....	R. D. Meikle, B.A., LL.B., F.L.S. 1947
Scientific Officer.....	F. N. Hepper, B.Sc., A.L.S..... 1951
" " "	D. A. Reid, B.Sc..... 1951
" " "	L. L. Forman, B.Sc., F.L.S..... 1951
" " "	R. A. H. Graham, M.A., F.L.S. (Colonial Office)..... 1956
" " "	D. H. Dalby, B.Sc., Ph.D..... 1956
" " "	N. K. B. Robson, B.Sc., Ph.D. (Colonial Office)..... 1956
" " "	C. Jeffrey, B.A. (Colonial Office)... 1957
" " "	H. F. J. Huber, Dr. rer. nat. (Colo- nial Office)..... 1957
Senior Experimental Officer.....	†E. Nelmes, F.L.S..... 1921
" " "	R. A. Blakelock, B.Sc., F.L.S..... 1937
Experimental Officer.....	Miss C. I. Dickinson, M.A., Dip. Agric..... 1928
" " "	P. G. Taylor, F.L.S..... 1948
" " "	J. K. P. Kennedy-O'Byrne, F.L.S.... 1948
" " "	J. R. Tennant, B.Sc., F.L.S. (Colo- nial Office)..... 1956
" " "	Miss S. S. Hooper, B.Sc. (National Dianthus Collection)..... 1952
" " "	Miss M. I. Skan (Index Kewensis) 1919
Assistant Experimental Officer.....	P. G. Wilson, B.Sc..... 1953
" " "	Miss B. N. Willoughby, B.Sc..... 1957
" " "	Miss S. Carter (Colonial Office)... 1957
Senior Assistant (Scientific).....	Miss J. Forster..... 1947

	<i>Entered Kew</i>
Assistant (Scientific).....	Miss I. Blewett..... 1941
" "	Miss A. D. Dunk..... 1953
" "	Miss I. L. M. Fletcher..... 1952
" "	J. L. Gilbert (Colonial Office)..... 1956
" "	Miss P. Halliday..... 1947
" "	Miss J. E. Hawkins (Index Kew- ensis) 1956
" "	Miss A. James (Colonial Office)... 1956
" "	Miss J. McEwan..... 1956
" "	A. L. G. Sapper..... 1948
" "	Miss P. Z. Scammell (Colonial Office) 1950
" "	Mrs. O. F. Tait..... 1955
" "	Miss A. C. Uchlein..... 1957
" "	P. J. Darbyshire..... 1957
" "	Miss D. Moscoff (Colonial Office) 1957
" "	Miss D. B. Cousins (Colonial Office) 1957
" "	M. J. S. Sands (Iraqi Government) 1957
Visiting Botanist.....	W. Marais, M.Sc..... 1957
Librarian	H. S. Marshall, F.L.S..... 1932
Assistant Librarian.....	K. J. Churches, A.L.A..... 1954
" "	Miss D. M. Jepson, A.L.A..... 1956
Clerks (Library).....	Mrs. P. L. Irving..... 1954
" "	Miss M. Kierans..... 1934
Library Assistant.....	Miss M. C. Davey (Bentham- Moxon) 1937
Hon. Associate (Transplant & Breed- ing Experiments).....	E. M. Marsden-Jones, F.L.S., F.R.E.S..... 1922
Artist	G. Atkinson, A.L.S..... 1922
"	*Miss Stella Ross-Craig, F.L.S., (Ben- tham-Moxon) 1929
Senior Preparer.....	Mrs. H. Wootton..... 1949
Preparers	Miss D. Bowman..... 1953
"	Mrs. H. Dzilna..... 1954
"	Miss I. E. Farrow..... 1948
"	Mrs. L. Glenister..... 1956
"	Mrs. I. Kingerley..... 1952
"	Mrs. J. M. Lines..... 1951
"	Mrs. D. I. Mitchell..... 1954
"	Mrs. J. E. Pizzala..... 1955
"	Mrs. K. Watts..... 1956
Temporary Technical Assistant.....	Miss J. D. M. Pearson, G.C. (Ben- tham-Moxon) 1955
Clerk " " "	Miss E. Chilton (Bentham-Moxon) 1957
"	E. E. Cope..... 1953
"	P. Heawood..... 1956
"	Miss G. M. Pring..... 1954
Shorthand Typist.....	Mrs. E. Jones..... 1953
"	Mrs. H. M. Skews (Colonial Office) 1953
Typist	Mrs. M. Brind..... 1955
"	Mrs. B. F. Saunders..... 1952
"	Miss I. L. Taylor (Colonial Office) 1951
"	Miss L. D. Whiteley (Colonial Office)..... 1956
JODRELL LABORATORY	
Keeper (Principal Scientific Officer)...	C. R. Metcalfe, M.A., Ph.D., F.L.S. 1930
Scientific Officer	Miss M. Y. Stant, B.Sc., Ph.D..... 1950
Experimental Officer.....	F. Richardson..... 1934
Assistant (Scientific).....	Miss D. M. Catling..... 1950

	<i>Entered Kew</i>
Photographer	R. R. Zabeau..... 1956
DEPARTMENT OF ECONOMIC BOTANY	
Keeper (Principal Scientific Officer)...	F. N. Howes, D.Sc..... 1925
Senior Scientific Officer (Quarantine Work).....	T. A. Russell, B.Sc., A.R.C.S., A.I.C.T.A. 1954
Senior Scientific Officer.....	S. G. Harrison, B.Sc..... 1949
Scientific Officer.....	Miss B. J. Youngman, B.Sc..... 1950
Assistant (Scientific).....	Miss J. K. Bowden..... 1949
Preparer.....	L. J. Harding..... 1913
Typist.....	Miss V. Horwill..... 1951
GARDENS	
Curator	†W. M. Campbell, N.D.H., F.Inst. P.A., V.M.H. 1922
Assistant Curator.....	*†L. Stenning, A.H.R.H.S. (Tropical) 1925
" ".....	†S. A. Pearce, F.Inst.P.A. (Botanics) 1928
" ".....	†G. H. Preston, F.L.S. (Herbaceous) 1934
" ".....	*†S. W. Rawlings (Decorative)..... 1936
" ".....	†J. E. S. Souster, N.D.H., F.L.S. (Temperate) 1943
" ".....	†G. E. Brown, N.D.H. (Arboretum) 1946
Foreman Gardener.....	*†H. Collin (Quarantine House) (Colonial Office)..... 1923
" ".....	G. C. W. Gardner (Botanics)..... 1926
" ".....	G. H. Anderson (Palm House)..... 1940
" ".....	W. A. Mullins (Dianthus Collection) 1942
" ".....	W. Bridle (Temperate House Pits) 1946
" ".....	H. Bruty (Ferneries—Tropical)..... 1946
" ".....	P. G. Shutler (Arboretum)..... 1946
" ".....	†A. J. Hale (Temperate House)..... 1955
" ".....	†F. Larkbey (Decorative)..... 1947
" ".....	†G. Nicholson (Orchids—Tropical) 1947
" ".....	†A. G. Cook (Herbaceous and Rock Garden) 1948
" ".....	R. J. Chuter (Propagator)..... 1953
Executive Officer.....	†N. Hickman (Tropical Pits)..... 1955
Clerks	†E. G. Dunk..... 1914
" ".....	W. D. H. Prior..... 1955
" ".....	G. F. Lamb..... 1951
" ".....	Miss E. Mates..... 1948
Shorthand Typist.....	Miss A. G. Barton..... 1953
Typist	Miss M. Sillitoe..... 1947
Packer and Storekeeper.....	†H. W. Ruck..... 1907
Bird Keeper and Bellringer.....	J. H. Claiden..... 1919
Seed Collector.....	J. Paske..... 1929
" ".....	S. Sheffield..... 1947
Gardener Grade I.....	F. L. Burnell..... 1946
" ".....	R. Byrne.....
" ".....	J. Gibson..... 1947
" ".....	H. Hockley..... 1942
" ".....	A. Hughes..... 1920
" ".....	F. H. Jackman..... 1940
" ".....	H. J. Jackman..... 1949
" ".....	E. W. Macdonald..... 1950
" ".....	J. Mateer..... 1952
" ".....	W. Mort..... 1929
" ".....	C. W. Preston..... 1922
" ".....	E. Skyrme..... 1947

	<i>Entered Kew</i>
Gardener Grade I.....	J. Slater..... 1945
" ".....	F. W. Standen..... 1940
" ".....	R. J. Sadler..... 1951
" ".....	M. A. Wells..... 1946
" ".....	E. J. White..... 1940
CONSTABULARY	
Sergeant in Charge.....	W. Leaver..... 1935

STUDENT GARDENERS

<i>Name</i>	<i>Entered Kew</i>	<i>Previous Situation</i>
Adams, R.....	Sept., 1957	Stockport Parks Dept.
Adshead, P.....	Sept., 1957	Brighton Parks Dept.
Atkinson, Miss A. L. M.....	Oct., 1956	W. Blom & Sons, Watford.
Barker, L. P.....	Oct., 1956	W. Wood & Son, Taplow.
Bird, S. F.....	April, 1957	High Wycombe Parks Dept.
Brown, J.....	April, 1957	Manchester Parks Dept.
Carter, B.....	April, 1957	Southport Parks Dept.
Catchpole, P. A.....	Oct., 1956	Royal Gardens, Windsor.
Clift, M.....	Oct., 1956	Hillier & Sons, Winchester.
Coghlan, R.....	Sept., 1957	Cambridge Botanic Garden.
Collett, M.....	Oct., 1956	John Innes Hort. Institute.
Dean, P. G.....	Sept., 1957	Cawood Experimental Station.
Dunnenberger, W.....	April, 1957	Marthaler Zurich, Switzerland.
Floyer, Miss F. G.....	Oct., 1956	Thornescroft, Shipley.
Hart, A.....	Oct., 1956	Bodnant, Tal-y-Cafn.
Horsfall, H. R.....	April, 1956	Leeds Parks Dept.
Johnson, R.....	April, 1956	Barrowford Parks Dept.
Jones, K. R.....	Sept., 1957	Cambridge Botanic Garden.
Kerr, R. T.....	Sept., 1957	Glasgow Botanic Garden.
Marshall, W. S.....	April, 1956	Royal Gardens, Sandringham.
Mills, L. C. R.....	Oct., 1956	East Lodge, Enfield.
Overeynder, H.....	Oct., 1956	Kiln Lane Nursery, Surrey.
Parkin, Miss M. E.....	April, 1957	L.C.C. Battersea Park.
Paterson, A. P.....	April, 1956	Cambridge Botanic Garden.
Pedley, A.....	Sept., 1957	Keighley Parks Dept.
Porter, A. J.....	Oct., 1956	Improver, Kew.
Powell, C. U.....	April, 1956	Gunnersbury Parks Dept.
Ransom, D. P.....	Sept., 1957	P. Buis Union, Aalsmeer, Holland.
Risely, T. F., N.D.H.....	Oct., 1956	Leicester Parks Dept.
Rooke, I. G.....	Oct., 1956	Southend Parks Dept.
Rule, R. H.....	April, 1956	Beckenham Parks Dept.
Sales, D. J., N.D.H.....	April, 1956	Hampton Court Gardens.
Strabel, J. F.....	Oct., 1956	Swanley Horticultural Institute.
Storer, D. T. M.....	April, 1957	Gynsill Court Nurseries, Leics.
Sutcliffe, T.....	April, 1957	Nelson Parks Dept.
Thomas, R. G.....	April, 1956	Ealing Parks Dept.
Tomlinson, D.....	Sept., 1957	Manchester Parks Dept.
Vogt, A.....	Nov., 1956	Ch. Lardet, Lausanne, Switzerland.
Williams, A. L.....	Sept., 1957	Leicester Parks Dept.

IMPROVERS AND BOYS

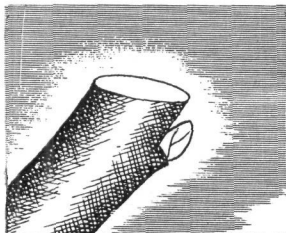
A. E. Bond, M. G. Garrett, P. A. Gooding, K. Hobbs, S. Linnegar, J. F. Norris,
R. J. Pirrie, D. Prior, A. Read, J. A. Sheppard, B. K. Skan, D. W. Taber,
A. R. Toogood, D. Wakeford, D. A. Waterman, A. T. Wood.

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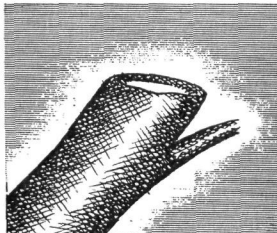
Thus wounds, unable to form their own protective layers, are exposed to frost and water which soon rot the woody interior of the tree or branch.

GRAFTING. Arbrex has the advantage that it can be brushed over the finished graft to give a perfect seal preventing "drying out." It replaces grafting wax with the advantage that it needs no preparation or heating before use. After securing the graft with adhesive tape or raffia, a second coat can be given after the first one has dried out. When the ties are slit in June or July, most of the skin of the dry Arbrex will be removed with the binding material.



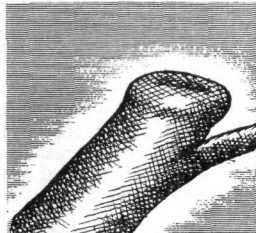
Exposed Wound

1. The illustration shows the exposed wound after pruning.



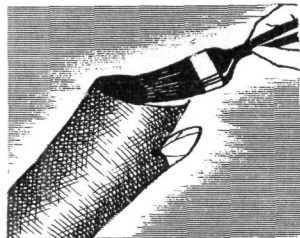
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2. In a short time the natural callus begins to grow.



Years Later

3. Years later the full protective callus has grown.



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4. This picture shows the application of Arbrex immediately after pruning.



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ADDRESS LIST OF OLD KEWITES

*(The Names of Life Members are preceded by an asterisk)**(The year of leaving Kew is indicated)*

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

1936. Abbing, J., Beauwea Park, P.B., Grahamstown, S.A.
 1909. *Adamson, J., Hardy Plant Nursery, Holywood, Dumfries.
 1938. *Addison, G. H., B.G., Singapore, S.S.
 1957. Addison, P., c/o Parks Dept., Liverpool.
 1926. Agate, C. J., 7 Beach Road, Great Neck, Long Island, N.Y., U.S.A.
 1924. *Aikman, Miss M. G., 18A London Street, Edinburgh, 3.
 1949. Ainslie, E., 70 Mount Drive, Marple, Cheshire.
 1939. *Airey, J. E., Westmoor Gardens, Mansel Lacy, Hereford.
 1952. Airey Shaw, H. K., B.Sc., 13 Honor Oak Road, Forest Hill, S.E.23.
 1945. *Albert, Mrs. H., 47 Arstice Street, Oyster Bay, N.Y., U.S.A.
 1918. *Alcock, Mrs. N. L., M.B.E., F.L.S., 108 Cole Brook Street, Winchester, Hants.
 1946. Allen, Miss B. (See Mrs. F. Christopher).
 1948. Allen, F. H., Coombe Villa, Wotton-under-Edge, Glos.
 1930. Allison, B. W., A.S., Parks Dept., Salford, Lancs.
 1911. *Allt, W. S., E. Market Street, Hyde Park, N.Y., U.S.A.
 1956. Alphonso, A. G., B.G., Singapore, S.S.
 1925. Alston, A. H. G., M.A., British Museum (Nat. Hist.), S.W.7.
 1945. *Ambrose, Miss R. M. (See Mrs. J. Souster).
 Amoah, G. K. A., Hort. Office, Dept. of Agric., P.O. Box 299, Accra, Ghana.
 1926. *Anderson, A. W. C., N.D.H. (N.Z.), S., Parks and Reserves, Timaru, N.Z.
 1910. *Anderson, J. W., Granta, Bucklesham, Ipswich, Suffolk.
 1956. Andrews, B. R., 9908-85th Avenue, Edmonton, Alberta, Canada.
 1954. Appleby, J., 53 Rathbone Road, Wavertree, Liverpool, 15.
 1947. *Armstrong, C. E., N.D.H., H.L., Kesteven Farm Inst., Caythorpe Court, Nr. Grantham, Lincs.
 1931. *Arnold, T. A., 157 Jeppe Street, Johannesburg, S.A.
 1920. Ash, Mrs. W. (E. M. Harper), 22 Palace Court, Hampstead, N.W.3.
 1944. *Ashby, Mrs. D. (F. A. Sharps), Little Croft, Harston, Cambs.
 1954. Ashley, R. F., c/o R.H.S. Gardens, Wisley, Surrey.
 1956. Ast, R., St. Andreas, Cham./Z.G., Switzerland.
 1931. Atkins, L. G., N.D.H., 59 Cranwick Road, Lincoln.
 1954. Attenburrow, D. C., c/o D. of Agriculture, P.O. Box 338, Nairobi, Kenya.
 1950. Attwood, C. A., 58 Centenary Road, Canley, Coventry.
 1910. *Aubrey, A. E., 83 Newbridge Street, Wolverhampton, Staffs.
 1946. Avery, Edwin, 2 Newport Road, Barnes, S.W.13.
 1939. *Aves, J. J., D.S., P.O. Box 1454, Parks Dept., Pretoria, S.A.
 1935. Bachelor, P. L., Glenchairn, Dover Ridge Avenue, Carlton, Nottingham.
 1906. Badgery, R., 47 King's Ash Road, Paignton, Devon.
 1900. *Baggesen, Niels, Viborg, Pembury, Tunbridge Wells, Kent.
 1914. *Bailey, A. G., M.A., Yew Tree Cottage, Misterton, Crewkerne, Som.
 1920. *Baker, A. F., 15 Beresford Road, Kingston-on-Thames, Surrey.
 1920. *Baker, E., The Myrth, Buckneils Lane, Yarston, Herts.
 1947. *Baker, M. E., Melrose, Battlebridge, Warfield, Berks.
 1939. *Balch, R. W., N.D.H. (N.Z.), A.S. of Reserves, 32 Montague Road, Dunedin, New Zealand.
 1908. *Band, R., P.O. Box 524, Accra, Gold Coast Colony.
 1927. *Banfield, F. S., F.L.S., 28 Cudmore Avenue, Toorak Gardens, South Australia.
 1928. Barham, V. G., "Ivermark," Arnolds Lane, Sutton-at-Hone, Dartford, Kent.
 1923. *Barker, W. H., N.D.H., M.C., The Lodge, Scaleby, Carlisle.
 1914. *Barnett, M. J., N.D.H. (N.Z.), A.H.R.I.H. (N.Z.), D., Parks and Gardens, Christchurch, N.Z.

- d. A Chairman of Committee shall be elected by the Committee to take the chair in the absence of the President and Vice-Presidents.
- e. Candidates for election as officers or ordinary Committee members may be proposed by any member of the Guild, provided that the names of candidates be sent in writing to the Secretary at least 21 clear days before the Annual General Meeting.
6. The Annual Subscription, which shall be payable on January 1st of each year, shall be such sum as the Annual General Meetings shall from time to time determine and shall entitle members to all publications of the Guild. A member whose subscription is one year in arrears shall not receive further publications until his arrears be fully paid. [The annual subscription is at present 7s. 6d.]
7. Any member whose subscriptions are fully paid, may, on the payment of a lump sum predetermined by the Annual General Meeting, become a Life Member, and be entitled to all the privileges of the Guild without further payment. A sum representing not less than one-half of each life subscription shall be invested in the name of the Trustees and the liabilities to Life Subscribers shall be clearly shown in the annual Statement of Accounts. [This rule is abrogated at present by decision of the Annual General Meeting.]
8. The Guild shall publish annually a Journal containing a list of the Kew Staff, from the Director to the Student Gardeners, and such other information as shall appear desirable.
9. The Annual General Meeting shall be held at Kew on the last Saturday in August. At the Annual General Meeting the Report of the Committee and annual Statement of the Accounts shall be submitted, and elections of officers and Committee members shall take place. Fourteen clear days before the Annual General Meeting the Hon. Secretary shall circulate to all members resident in the United Kingdom a financial statement together with the agenda of the meeting, which shall include a list of candidates for election as officers or ordinary Committee members together with their proposers.
10. There shall be a Benevolent Fund for the purpose of helping Kewites who may be in urgent need of assistance.
11. The Rules shall not be altered except by a two-thirds majority of those present and voting 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.

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