

THE  
JOURNAL  
OF THE  
KEW GUILD

*AN ASSOCIATION OF MEMBERS OF THE KEW STAFF  
PAST AND PRESENT*

FOUNDED 1892

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EVENTS OF 1973

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ROYAL BOTANIC GARDENS  
KEW

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*Secretary :* TONY WHITEHILL,

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 Australia 5054.

## RULES OF THE KEW GUILD

### *Name of the Society.*

- (1) The name of the Society shall be "The Kew Guild".

### *Objects.*

- (2) The objects of the Guild shall be—
- (a) the advancement of knowledge of horticulture generally and in particular in connection with the work of the Royal Botanic Gardens, Kew, and among members of the Guild.
  - (b) the encouragement of horticultural education at the Royal Botanic Gardens, Kew, by the provision of prizes and grants for Student Gardeners and the administration of the educational funds of the Guild.
  - (c) the provision of facilities for leisure time education and recreation in the interests of the social welfare of Student Gardeners and others having need of such facilities who are within the provisions of Section 1 of the Recreational Charities Act, 1958.
  - (d) the administration of the charitable funds of the Guild and the assistance from such funds of members of the Guild who are in need.
  - (e) the publication of a Journal in furtherance of the objects of the Guild or any of them.
  - (f) generally to do all such acts as shall further the active and corporate life of the Guild and may be lawfully done by a body established only for the purposes recognised by the law of England as charitable.

### *Membership.*

- (3) (a) Membership of the Guild shall be open to past and present Curators, Assistant Curators, Garden Supervisors, Student Gardeners, Scientific, professional and executive members of the staff of the Royal Botanic Gardens, Kew, and Wakehurst Place; also Voluntary Students and Research and Liaison Scientists, provided they have worked continuously at Kew or Wakehurst Place for at least twelve months. The term "Kewites" where used herein or by the Guild in other publications shall mean a paid-up member of the Guild.
- (b) In addition, the Committee may admit to membership of the Guild any member of the Kew staff outside the categories set out in (3) (a) who is deemed worthy of membership of the Guild.
- (c) Honorary Membership may be awarded at the discretion of the Committee to a former officer (Hon. Editor, Secretary or Treasurer) who has rendered outstanding service.
- (4) Members of the Guild shall have the right to vote at meetings and to compete in competitions, and shall be eligible for election as officers of the Guild or to serve on the Committee.
- (5) Any member wishing to resign shall give notice to the Honorary Secretary or the Honorary Treasurer before the first day of December in the year of his or her intention to resign.
- (6) (a) The Committee may by resolution communicated to the member in writing and stating concisely the grounds for which it proposes to act call upon any individual to resign from the Guild and if the member does not so resign within forty-eight days after being so called upon the Committee may by resolution terminate his membership.
- (b) before coming to any decision the Committee shall give the member affected proper facilities for stating his case to them either orally or in writing as the Committee may determine.

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## NOËL JAMES PROCKTER, F.L.S.

President 1973/74

Our President, Noël J. Prockter, born at Lingfield, Surrey, on 15th December, 1910, the son of an architect, was undoubtedly destined from his early days to become a gardener, for his maternal grandfather and his mother were keen amateurs. His earliest childhood attempts at gardening were to pull up a Virginia Creeper, which, when replanted, grew even more luxuriously.

At preparatory school his mind often strayed from the black-board because of the fascinating plants he could see through the window, in fact, his headmaster wrote in one report—"If you did not look out of the window so much your work would be better". He completed his education at Sutton Valence in Kent.

In April, 1926, he started his career on a nursery at Lingfield, at 30s. per week. Six months later he went to J. Cheal & Sons of Crawley, when his wages were reduced to 10s. per week. Here he was surrounded by as fine a collection of plants of every kind as could be found in any nursery in Britain.

It was at Cheal's that he met Tom Sargeant, Guild President in 1954/5, who was to be his foreman in the herbaceous and Alpine department. It was Tom Sargeant who encouraged and guided his young pupil, eventually persuading him to become a student gardener at The Royal Botanic Gardens, Kew, which he did on 5th July, 1935.

It was not until at Kew that he realised that trees and shrubs also interested him. No doubt the lectures and demonstrations given by William Dallimore and Arthur Osborn inspired him to botanise in the Arboretum in his spare time. Noël did not actually work in the Arboretum, for his first nine months were spent happily in the Palm House, being followed by periods in the Decorative and Tropical Departments and finally as sub-foreman of the rock garden with George Preston (Vice-President 1973-74) in charge of the Herbaceous Section.

During his two years at Kew, he was Hon. Secretary of the Mutual Improvement Society and was awarded the Hooker Prize, while for the second best collection of British Flora he took the Proudlock Prize. Among his social activities he played tennis regularly.

On leaving Kew in November, 1937, he rejoined Cheal's as Assistant Manager and in 1940, became Manager through the war years when a staff of 120 was greatly reduced to old men, women, boys, land army girls and prisoners of war.

In June 1945, as Assistant Horticultural Manager of Edward Webb & Sons Ltd., Seeds Merchants, Stourbridge, it must have appeared that his career was to follow a definite pattern within the nursery trade, but in March, 1946, he joined *Amateur Gardening* as an Assistant Editor—first under the late A. J. Macself, then

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NOËL JAMES PROCKTER

President, 1973-74



GEORGE HENRY PRESTON,  
Vice-President, 1973-75

GEORGE HENRY PRESTON,  
Vice-President, 1973-75

George H. Preston was born on 11th September, 1911, at Cambridge and educated at The County High School. Being brought up in The University Botanic Garden, Cambridge, where his father was first Foreman and later Superintendent, did undoubtedly inspire George to the extent that in 1927 he started his horticultural career in the University Botanic Garden, Cambridge. Here he gained an all-round knowledge of herbaceous and rock plants, an interest that has never left him. While at Cambridge he attended the University lectures on botany.

Six years later in 1933, he went to the Royal Horticultural Society's Garden, Wisley, as a student, where he worked in the show and fruit houses, tree and shrub, herbaceous and alpine departments. On completion of his two years he was awarded The R.H.S. Wisley Diploma of Horticulture, also first prize for obtaining the highest number of marks for the lectures and demonstrations.

From Wisley he moved on to The Royal Botanic Gardens, Kew, in 1934, where he continued his studentship and gained further experience in various departments and lectures, for which he received the Kew Certificate.

It was in 1935, when I went to Kew, that I first met George and before long we were working closely together, as in 1936, when he became foreman in the herbaceous department, I was made foreman in the Rock Garden.

Then in 1937, he was appointed an Assistant Curator in charge of the Herbaceous and Alpine department. Under his guidance the old limestone rock garden has been remade in Sussex sandstone, from West Hoathly. The Iris garden has also been redesigned and enlarged, and probably has the finest and most up-to-date and comprehensive collection of tall, beard irises in any public garden anywhere, certainly in The British Isles.

Before moving on to his other horticultural successes, a word about his more leisurely pursuits. He was always a keen tennis player, also cricketer and was a good bat as well as bowler and on one occasion in 1935, he took 6 wickets for 27 runs against Cambridge Botanic Garden. For several years he was Hon. Secretary of both the tennis and cricket clubs.

As a keen and successful photographer he frequently illustrates his lectures with his own colour transparencies. We have on many occasions judged together at flower shows. From time to time he puts pen to paper and in 1954, revised J. Coutts's book *All About Gardening*. His handbook on *Climbers* published in 1960, has recently been revised as a Wisley handbook No. 13 *Climbing and Wall Plants*, 1973.

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for 21 years under A. G. L. Hellyer—until he retired in 1972. As an author he has written three books: *Simple Propagation*, 1950, Collingridge, its sixth edition soon to appear by his present publishers Faber & Faber; *Garden Hedges*, 1960, Collingridge; and *Climbing and Screening Plants*, 1973, Faber & Faber.

He helped to found the Crawley Horticultural Society in 1952, being its Chairman until 1964, and now Deputy President. Then in 1957, he was a founder member of the Hardy Plant Society and its first Hon. Secretary, now Chairman. For three years he was Hon. Secretary of the Delphinium Society. In 1964, through Don Wells (1936), he became a founder member of the Arboricultural Association. Between 1958-68, he took part in the B.B.C. "In Your Garden" programme. He has been a member of the West Sussex County Council Horticultural Advisory Committee since 1966.

Now back to the Kew Guild of which he has always been a staunch supporter, and was a member of the Committee from 1950-53, 1959-62, 1964-67, and thus our President served over the periods when the Guild was granted a Coat of Arms and later when it was re-organised as a charity.

His other interests, are collecting antiques, china (with a preference for Doulton), old silver and horticultural books. He also helps to create gardens, for artistic imagination seems to be another inherited gift.

He married Sybil (née Ball) in 1941, and has two sons, Lewis and Alan, the latter who has his father's interest in plants and is a landscape architect.

### KEW MUTUAL IMPROVEMENT SOCIETY

The 1973-74 Session has been a great success and the Society has brightened up many a dull winter's evening for its members by providing a great variety of lecture topics dealing with many parts of the world. To mention just one as an example—M. J. Whitehead (1972), the winner of the Ernest Thornton-Smith Scholarship (1972), spoke on his visit to the Seychelles.

The Inter-college Quiz was a success, the contestants being Merrist Wood College; The R.H.S. Gardens, Wisley and Kew. Merrist Wood won convincingly.

My thanks go to the staff and students for their support throughout the season and to the committee members who have formed the nucleus of the effort and determination which has helped to make the session a success.

J. B. MOWFORTH, *Chairman.*



## ANNUAL GENERAL MEETING, 1973

Cloudy skies cast a shadow of doubt about the weather at the beginning of the day on Saturday, 22nd September, but later, true to form, the A.G.M. and tea took place on a fine afternoon. 45 members—only one less than in the previous year—met in the Jodrell Lecture Theatre and the President, Mr. J. P. M. Brenan, took the chair, accompanied on the platform by the Hon. Treasurer, Mr. J. Hale, the Hon. Editor, Mr. G. E. Brown, the Hon. Secretary, Mr. F. N. Hepper, and the Hon. Assistant Secretary, Mr. M. J. S. Sands.

After the President had welcomed members to the meeting, all those present stood in tribute to Kewites who had died since the last Annual General Meeting: Dr. N. L. Bor (retired as Deputy Director 1959), G. E. Cave (1903), A. Hearn (1942), K. E. Jones (1925), J. H. Lock (1927), L. J. Mahon (1948), K. McCreadie (1929), P. T. Russell (1906), C. E. T. Shepherd (1955) and J. D. Snowden (1911).

Apologies for absence had been received from several members and the minutes of the last A.G.M. were adopted. There were no matters arising.

The Committee reported as follows:—

The Hon. Treasurer referring to the published account for the year ended 31st December, 1972, which was adopted, pointed out that although income exceeded expenditure by £85.70, this was only by virtue of investments and donations, and he went on to give the half-yearly figure indicating an even smaller relative margin. Remarkably, however, the cost of producing the *Journal* had been maintained at virtually the same figure as for 1972, and a comfortable profit had been made on the dinner. Discussion was deferred until the subscription increase was considered later in the meeting.

Mr. Pattison reported good *sales (60) of ties, scarves and badges*, particularly at the dinner when a third of the annual total was sold. Stocks to the value of £84 were still in hand.

The Hon. Treasurer provided the *membership* figures and said that out of a total of 737, 301 paid by Bankers' Standing Orders, the method of payment preferred since it obviated the need for reminders. There had been 19 new members during the current year and, of the total, 235 were life members, 466 ordinary members and 36 students. During discussion it was suggested that the *Journal* should not be despatched until payment had been received and it was agreed that the Committee should consider reinstating in some form rule 8 concerning Life membership. Thought should be given to the consequent implications and, if necessary, actuarial advice should be sought. The student body should be consulted.

The Hon. Editor, reporting on the *Journal*, commented in turn on its various sections. Because of the quantity of material that

was becoming available for inclusion, he emphasized the need to spend more money and increase the number of pages. Several suggestions were offered to be considered in committee, such as the exclusion of the rules except for new members and the possibility of more subscription covenanting.

The Hon. Secretary reported that the *collection of photographs*, while remaining the property of the Guild, was now housed in the Kew Library and that 25 had been recently added. Further additions from any members would be welcome. The photographs taken at the dinner were available for inspection after the meeting.

Speaking about the *dinner* Mr. Woodhams said that, with an attendance of 186 despite the increased ticket price, it had undoubtedly been one of the most successful in recent years. The name tags had proved to be acceptable and an advantage. A full report on the dinner appears on page 214. The President expressed the thanks of the Guild to Mr. Woodhams for his work in preparing for the event.

Mr. Butcher, who had represented the Guild at the *Students' Prize Day*, spoke of the prize winners, four of whom were also awarded the N.D.H., and reported on the fine speech given by Mr. Emrys Jones, Director-General of A.D.A.S., parts of which are recorded on pages 216-218.

*Retiring members of the Committee* were as follows: Messrs. E. Baverstock, J. Karani, J. Sales, J. Woodhams and N. J. Hoskins with Mr. C. M. Erskine as Auditor. Mr. J. P. M. Brenan and Mr. H. G. Butcher also completed their term as President and Vice-President respectively. Mr. Brenan, however, continued in the chair for the remainder of the meeting.

*Election of Officers, Members of Committee and Auditors.* This year no ballot was necessary and the Committee's nominations were duly elected *en bloc*, their names appearing on page 202 at the beginning of this *Journal*.

*Raising of the Annual Subscription.* The reasons for the increase having been indicated in the August Newsletter (No. 4), the Hon. Treasurer, Mr. Hale, led a short discussion before it was moved from the chair, seconded by Mr. Cherry and carried unanimously that the annual subscription be raised from £1 to £2 to take effect from 1st January, 1974. As well as eliminating the undesirable use of interest on investments to help finance the *Journal*, it was recognized that the added income would facilitate the production of a larger *Journal* and of a "Wakehurst" supplement. This could be published to coincide with the planned opening of the Henry Price Memorial Garden at Wakehurst in 1975, and sales might well be expected to recover costs and possibly yield a profit.

*Report on Students' Accommodation.* The Secretary reported that since the previous A.G.M., the conversion of Gumley Cottage,

as an interim measure in providing students' accommodation, had been officially approved. In correspondence with the Director the Guild had stressed the hope of opening the hostel by September 1974 and that conversion work be put in hand as soon as possible. He had assured the Guild he would do all he could to hasten its completion. The President of the Student's Union, Mr. Pearson, while welcoming this development, expressed concern about the longer term requirements, and it was generally agreed that the Guild should continue to pursue its initiative in pressing for additional facilities. Comparable problems of staff accommodation were also noted.

Before the meeting closed, full endorsement was given to a request by the newly elected President, Mr. Prockter, and Mr. Stock, that a vote of thanks be recorded to the retiring President and the Officers and Committee for their work during the past year.

Afterwards, when members and relatives met for tea in the services block of the Lower Nursery, Mr. MacDonald was presented with a record token in appreciation of his services for so many years as toastmaster at the Annual Dinners.

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

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In 1953, he was elected a Fellow of The Linnean Society of London. For his work on the cultivation of the genera *Lilium*, *Nomocharis* or *Fritillaria*, he was awarded, in 1966, The Lyttel Lily Cup. During his time George Preston has done much to encourage the development of Lily growing in the Gardens at Kew. The British Iris Society awarded him The Foster Memorial Plaque in 1966-67, for his work on Irises. Then in 1971, he was made an Associate of Honour of The Royal Horticultural Society for distinguished services to horticulture.

He is a member of the following committees: The R.H.S. Lily Committee. The R.H.S. Rock and Alpine Group Committee, The R.H.S. Joint Iris Committee and judging panel at Wisley, The British Iris Society's Executive Committee and The R.H.S. Joint Rock Garden Committee. He is also a regular judge at the Alpine Garden Society's shows.

Then on 2nd April, 1960 George, who was thought to be a confirmed bachelor, surprised us all by getting married to Joan Mary Turner, so I wish them every happiness in their new retirement home at Great Shelford, Cambridge.

NOEL J. PROCKTER.

## INCOME AND EXPENDITURE ACCOUNT

		DEBIT			
1972				1973	
£			£	£	
	<b>To Kew Guild Journal:</b>				
	Printing 1972 Journal (inc. blocks) ... ..	427.22			
	Postage ... ..	35.72			
			462.94		
445.86½	Less Journal Sales... ..		8.00		454.94
	<b>To Guild Annual Dinner:</b>				
	Cost of Dinner, printing, gratuities, less receipts ... ..				—
22.18½					
56.45	<b>To Prizes awarded by the Guild, 1973</b> ... ..				30.90
	<b>To Annual General Meeting:</b>				
	Printing, postage, envelopes ... ..			14.20	
24.74½					
17.25	<b>To Hon. Officers' Expenses</b> ... ..				19.48
13.80	<b>To Benevolent Payments and Wreaths</b> ... ..				40.50
10.74½	<b>To General Printing, Postage and Stationery</b> ... ..				58.47
19.36	<b>To Typing and Clerical Expenses</b> ... ..				19.00
—	<b>To Guild Emblems</b> ... ..				41.37
4.06	<b>To Insurance and Bank Charges</b> ... ..				3.40
10.93	<b>To Guild Journal Supplement</b> ... ..				—
29.80	<b>To Deteriorated Christmas Card Stock</b> ... ..				—
655.19					682.26
85.70	Income Exceeds Expenditure ... ..				187.92
<u>£740.89</u>					<u>£870.18</u>
4,387.44	Balance as per Balance Sheet ... ..				4,580.43½
<u>£4,387.44</u>					<u>£4,580.43½</u>

## THE KEW GUILD BALANCE SHEET

		LIABILITIES			
1972				1973	
£			£	£	
	<b>Capital Fund:</b>				
4,387.44	As per attached Statement of Assets ... ..				4,580.43½
	<b>Current Liabilities:</b>				
	Life Subscribers—				
	63 @ £1.00—half rate ... ..	31.50			
	74 @ £2.00—half rate ... ..	74.00			
	73 @ £3.15—half rate ... ..	114.97½			
	6 @ £5.25 ... ..	31.50			
257.05	15 no record ... ..	—			
					251.97½
<u>£4,644.49</u>					<u>£4,832.41</u>

## FOR THE YEAR ENDED 31st DECEMBER, 1973

		CREDIT			
1972				1973	
£				£	£
420.66	By Annual Subscriptions and Arrears ... ..	...	...	407.64	
84.22	By Life Subscriptions and Donations ... ..	...	...	117.64	
				<hr/>	525.28
	<b>By Dividends:</b>				
199.39	From the Charities Official Investment Fund...				228.09
	<b>By Interest from Barclays Bank:</b>				
30.52	Deposit Account ... ..	...	...		70.38
	<b>By Guild Annual Dinner:</b>				
	Receipts from sale of tickets...	...	...		
	Less cost of Dinner, gratuities, fees, etc....	...	...		46.13
	<b>By Guild Annual General Meeting Tea:</b>				
	Receipts from sale of tickets... ..	...	...		
6.10	Less cost of tea ... ..	...	...		.30
					<hr/>
<u>£740.89</u>					<u>£870.18</u>
	Balance as at 1st January, 1973 ... ..	...	...	4,387.44	
	Reduction of Life Subscription Liabilities ... ..	...	...	5.07½	
	Add excess of Income over Expenditure ... ..	...	...	187.92	
					<hr/>
					<u>£4,580.43½</u>

£4,387.44£4,580.43½

## FOR THE YEAR ENDED 31st DECEMBER, 1973

		ASSETS			
1972				1973	
£				£	£
3,450.00	<b>Invested Assets:</b>				
	Charities Official Investment Fund ... ..	...	...		3,450.00
	<b>Current Assets:</b>				
89.60	Journals: Nominal Value of Stock ... ..	...	...	77.32	
49.07½	Guild Emblems (purchase value) ... ..	...	...	52.39½	
				<hr/>	129.71½
	<b>Cash at Barclays Bank:</b>				
	On Deposit ... ..	...	...	889.77	
1,038.51	In Current Account ... ..	...	...	360.79	
				<hr/>	1,250.56
17.30½	<b>Cash in Hand</b> ... ..	...	...		2.13½
					<hr/>
<u>£4,644.49</u>					<u>£4,832.41</u>

Audited and found correct,

A. P. HARVEY,	} Hon. Auditors.
J. S. KEESING,	

30th January, 1974.

## ANNUAL DINNER 1973

The Annual Dinner was held at the Refectory, Imperial College on Tuesday, 22nd May, 1973. With Mr. J. P. Brenan as President and with 186 Kewites and their friends (a record number), they sat down to a meal of Brochettes de Soles Duxelles—Asparagus Soup, Croutons—Roast Crown of Lamb, Buttered French Beans, Cauliflower a la Polonoise, Croquette Potatoes—Banana Split and Coffee.

After the toast to Her Majesty the Queen, the gathering settled to a speech and proposal of "Our President" by Mr. John B. Simmons, the Curator of Kew. He described how our President's interest in botany began with his studies of butterflies and of nature generally.

Mr. Simmons also referred to our President's great interest and contributions to the Flora of Tropical Africa and to other African Floras, and to his work in the compilation of the check list of the Woody Plants of Tanganyika. (A more detailed account appears in *K.G.J.*, Vol. IX, No. LXXVII (1972), p. 108.) These and many more of Mr. Brenan's botanical achievements were described before Mr. Simmons ended by referring to the plant display which decorated the table before the President's seat. It consisted of a "Coca-Cola" tin which was used as a container for a collection of *Tradescantia* species, symbols of our President's interests, both in the family *Commelinaceae* and of his work with the African genus *Cola*.

After the toast and his response, Mr. Brenan rose to give the main speech of the evening. He spoke of the first dinner which was held in the Holborn Room seventy three years ago when Sir William Thiseldon-Dyer was President. After giving thanks to the organisers of the present dinner, and in particular to Mr. and Mrs. Woodhams who had worked so hard on the preparations, the President also expressed his sympathies and regrets of the whole assembly at the absence through illness of Mr. Macdonald, "Mac" whom he described as the Veteran Master of Ceremonies. It was, he said, also to be his last as he was retiring from Kew.

Mr. Brenan then spoke of the way in which the various sections of botany had been brought together and of the lead in which Kew is taking in Plant Conservation. He reminded Kewites that they could help by using their influence to preserve the habitat rather than the individual species. He suggested that Kewites who were in positions of responsibility with local authorities are in a position to help considerably in this valuable work. The President also placed great importance upon the collections of plants at Kew, which not only played a part in the conservation of the various species, they were, he stressed, a valuable source of information. The part played by various expeditions in helping to build up these collections was also given

prominence. The development of the Seed Bank (which has been described in previous *Journals*), was also explained. Finally Mr. Brennan referred to the Kew Diploma Course and described a number of the most important features including the great emphasis which was being placed upon tuition in management. At the end of an interesting and enlightening speech the President ended with the call "May the Kew Guild become even more vigorous and powerful, may it be tall and evergreen."

The toast to "Our Guests" was proposed very effectively by Mr. Gerald Morgan, a third year student, and the response was made by Dr. William T. Stern, British Museum (Natural History) on behalf of Mr. W. R. Mackenzie (Curator, Chelsea Physic Garden) and other guests. Dr. Stern covered a wide range of topics including some of his experiences in the R.A.F. and some observations of the late N. E. Brown, a famous botanist at Kew.

The President, before closing the formal part of the Dinner, read out the names of overseas members attending the Dinner, asking each to stand. Members and guests then broke up into groups, the bar remaining open until 11 p.m.

#### KEW DIPLOMA AND PRIZES AWARDS, 1973 PRESENTED AT PRIZE DAY

*Kew Diploma*—This is awarded to students who have completed satisfactorily a three-year course of study at the Royal Botanic Gardens.

The following students received the Diploma:—

Honours—Miss R. Colson, N. Hoskins, R. A. Paterson, D. Stokes, A. Stuttard, P. Williamson.

Credit—M. Abrahams, G. Dykes, S. Henchie, R. Hughes, J. McVicar, G. Morgan, W. Pusey, B. Stannard, S. White.

Pass—R. Holmes, D. Howarth, A. Mugford, G. Stanfield.

The following prizes were awarded under the *aegis* of the Bentham Moxon Trust:—

*The Ernest Thornton-Smith Travelling Scholarship* (Value £800)—R. A. Paterson. *G. C. Johnson Memorial Prize*—A. Stuttard and D. Stokes. *Kingdon-Ward Prize*—M. Abrahams and R. A. Paterson. *Landsman Bookshop Prize*—S. White. *Sir Joseph Hooker Prize*—C. Bulmer.

The following Prizes have been presented by the Kew Guild:—

*Matilda Smith Memorial Prize*—S. Henchie. *C. P. Raffill Prize*—R. A. Paterson. *Dummer Memorial Prize*—S. Henchie. *Proudlock Prize*—A. Robinson. *Prize for the best Garden Plot*—S. Henchie. *Prize for the best individual study*—R. A. Paterson. *Mutual Improvement Society's Prize*—L. Philibert. *Students' Union Prize*—N. Hoskins. *Photographic Society's Prize*—D. Mathewman. *The Metcalf Cup*—L. Philibert.

AN ACCOUNT OF THE SPEECH BY SIR EMRYS JONES,  
B.Sc., LL.D., DIRECTOR-GENERAL OF A.D.A.S.

The Presentation of Kew Diplomas and prizes was held in the Jodrell Lecture Theatre at 3 p.m. on Friday, 21st September. The ceremony was opened by the Director, Professor J. Heslop-Harrison, who welcomed the students and guests and introduced Sir Emrys Jones.

Sir Emrys Jones began his speech by emphasising that he felt highly honoured to have been invited to make the presentations of prizes. He reminded his audience that in 1841 the Royal Family handed over the Botanic Gardens to the State and that a year later, in 1842, a few noble lords decided that there should be established in England a college for young gentlemen to study the arts and science of agriculture and horticulture, this becoming the Royal Agricultural College, Cirencester.

Referring to his new appointment as Principal of this renowned college which was to take effect within a few days, Sir Emrys gave some account of its history and related that there has been in all eleven principals with an average life each of eleven years—seven were sacked, two resigned and only two actually retired! The speaker continued—"So I am looking forward with some trepidation to the event which lies ahead of me. Now I was even more alarmed to read of the pranks which the students get up to, knowing that on the 2nd October 1973, 600 will descend upon me. I understand that they put a ferret in the last Principal's new car and while his predecessor had been treated in just the same way with little pigs being used, and that they had chewed up all the upholstery."

Sir Emrys Jones then spoke of the future in general terms recalling that the knowledge accrued over the last 30 years was actually greater than the amount gained in the previous period, which stretches right back through the history of mankind. It was no surprise, he stated, to see a man walking on the moon or two men milking three hundred cows in a matter of minutes. Thirty years ago these would have been miracles—we just do not know what will be the techniques of tomorrow. Sir Emrys continued by quoting from a paper presented to the Royal Society of Arts about three years ago—"In the short lives of the students of today we have had the atomic age, the cybernetic age, the space age and now portentiously the bio-engineering age. Each is as determinate in its own way as the great epochs of history, the bronze age, the iron age, the renaissance, or the industrial revolution. But all of them are happening at once and this is really one of the challenges which faces the students who are on the thresholds of their careers at the moment. They will have to cope with constant change and in all probability the rate will accelerate." The speaker continued "Let us look at farming and



horticulture, food production and land use. The situation when I was serving at Whitehall three years ago was that there was a vast surplus of food, with mountains of butter in Europe and great heaps of grain in the United States of America and Canada. We could see this situation spreading to this country and already it was difficult to sell grain and beef, while sheep were a 'dead loss.' The Department of the Environment was preparing plans to convert large areas into national parks with just an occasional sheep or cow as part of the scenery. Now look at the situation today, we are again desperately short of food and the plans for turning the hills of mid-Wales into a large National Park have been forgotten."

Sir Emrys continued—"There have been intense pressures on those who occupy and earn a living from the countryside during the last ten years. In British agriculture for example there has been the severe cost price squeeze of the 1960's, and it is important to recognize the results of this. The most dramatic has been the intensification of the processes of production. Instead of adhering to the traditional and balanced systems of farming where livestock and arable crops compensated one for the other with rotational cropping, livestock disappeared from many areas and cereal crops took over. Again, many workers left the land and were replaced by larger and larger machines which pulverised and flattened the soil. By 1971 Ministers were screaming alarms and were asking their Chief Agricultural Advisers—'What is happening, what have your advisers done—what has science done to us?' Finally an enquiry was launched to study the effects which these modern farming systems have on the soil."

Now, Sir Emrys explained, the effect of the world food shortage had led to an entirely different situation. He quoted the United States of America where millions of acres were coming back into production, so fast in fact that it was difficult to find the machines which were needed. He continued—"Are we to witness a more intensified system of agriculture with methods which are even more scientific, with more and more chemicals? Will we be using such a high level of nitrates that the water underground will become polluted?—there are fears that this may happen. Are we intensifying the use of pesticides and what effect will this have? Whatever happens, science will be condemned by the majority of the British public, this is certain, but it may be ill-informed criticism. If you think back two or three years ago before the present food crisis started there was an alarming build up of condemnation and criticism of the effect of science on the environment. Lord Wolfendon once said in a lecture, 'Science without humanity is void, humanity without science is blind'. This sounds marvellous, but it does not mean very much unless you interpret it on a statement of the conflict. This is what

these young men and women (the students completing the course), will be facing."

Later, stressing the importance of communications between departments Sir Emrys quoted the Oxford Don—"who rode a bicycle through Oxford with a completely flat rear tyre. After a few minutes he realised there was something wrong and upon inspection decided that he would have to pump it up. An undergraduate walking by noticed that he was pumping the front tyre and that it was about to burst. He said, 'Excuse me, Sir, do you realise that it is the back tyre which is flat?' He replied, 'Oh, I thought that they communicated.'"

The speaker concluded—"Whatever changes there may be in the technology of cultivation and growing plants or raising animals in the future, the principles governing the biological processes involved will not change. As farming and horticulture become more specialised, more intensive and more industrialised, it becomes even more important for those who are involved to understand these biological processes, and to understand why things happen the way they do under different circumstances. It is very evident that the Kew Diploma Course provides the right blend of practical, technical and scientific training, and will enable the student to appreciate the broader aspects of the possibilities of applied science in whatever environment they may find themselves. I applaud this course, for it is the only one of its kind and it should be preserved at all costs. The Royal Agricultural College, Cirencester, receiving no grant from the Government has no one to interfere with the content of the courses. There is room and an urgent need for independent courses of this nature to continue. Now the students here are indeed fortunate and it must have been a rewarding experience to have taken this course. I would like to end with a philosophy and one which I commend to all sectors of society. It is the farmer's creed—"Let me leave the land that little bit better, a little bit more fertile than when I had it of old."

Sir Emrys Jones then presented the prizes (please see page 215). Following the ceremony tea was served in the Lower Nursery Centre. (A display of students' work and of various aspects of the course was arranged in the nearby laboratory and drawing room for the benefit of visitors.)

## STUDENTS' UNION REPORT

Our calendar of some of the major social events, to fit in with the needs of the *Journal*, will run from January-December, 1973.

The first major event in January was the Photographic Competition. A Gardens' competition was held and the best entries were then put into the Kew-Edinburgh-Wisley slide contest.

On May 19th, the Kew relay team and supporters visited Pershore College of Horticulture for the Round Bredon Race. Kew excelled themselves over the difficult 20 mile course, and finished up 2nd out of the 15 teams.

The Kew-Wisley race was changed this year to the Kew-Hampton Court Relay Race, and was held in May owing to the increasing traffic problems on the roads. The race was run along the towpath from Kew to Hampton Court and back. The same number of runners took part as in the Kew-Wisley races, and the distance was 20 miles.

In June the Kew Students entered the Civil Service Sports Day. The three-a-side cricket team, and the two six-a-side football teams were beaten in the first round. In the athletics section Kew came 2nd in one event, and 3rd in the other, but the tug-of-war team were supreme in their event. They pulled their way to victory and collected their cup at the end.

In early August the Fête was held on Kew Green. This annual event was organised by the Fête Committee, and it was a great success. This was due to the hard work of the committee, the support given by everyone, and of course by the favourable weather. The Union presented the Gardeners' Royal Benevolent Society, and the Muscular Dystrophy Charity, with £100 each.

Later in August a Staff-versus-Students cricket match was held on Kew Green. The Staff fielded first on a very hot day and the effects of the heat showed later on in the match with their batting. Despite their eagerness to win the staff were beaten by the students' side.

The football team had a good start to the season, but let in a few more goals in the latter part of the year. There were 70 entries in this year's Table Tennis Competition. This is fast becoming a very popular annual event.

The new students arrived in late September, but for several months prior to this the Domestic Information Officer had the task of compiling a list of addresses suitable for student accommodation. Letters were delivered by hand to householders, and advertisements were placed in shops and newspapers. The replies were checked and in most cases visited to check on suitability. About two months before the Students arrived they received

a lodging list. The task of finding accommodation is getting more difficult every year and over the past three years the number of possibilities has halved with the cost almost double. The Union would like to thank the Guild for their continued support in pursuing the call for a Hostel for the sooner accommodation is provided, the better it will be for the Students and for Kew as a whole. The conversion of one of the houses on Kew Green has, except for money, been given the green light, but because of the cut back in Government expenditure, it is thought this plan will be shelved for the time being.

During their first week at Kew, the new Students were invited to a Cheese and Wine Party. This was held in the Herbarium Tea Room, and gave them the opportunity to meet fellow Students, Staff, and Lecturers.

This year the "Clog and Apron Race" was run on 18th October, with Prof. Heslop-Harrison, the Director, starting the race at the Palm House end of the Broad Walk. This year there were nine runners, slightly fewer than last year. Miss Pamela Holt, although having a thirty yard start, held on to the lead as she thundered down the Broad Walk. Near the finishing line she was overtaken by two runners. The results were:—1st, Kit Thomas in 53.75 secs.; 2nd, Tom Jones in 54 secs.; and 3rd, Miss Pamela Holt in 55 secs. Miss Holt clocked the same time as the winner in 1972.

At the end of October the "Round the Garden" race was held in the fog and oncoming darkness with Mr. Brennan as starter. After 15 mins. the first two runners re-appeared to cross the winning tape, in a shorter time than last year. The results were:—1st, Kit Thomas, 15 mins. 31 secs; 2nd, John Hacker, 15 mins. 32 secs; and 3rd, Sandy Chalmers, 16 mins. 17 secs. Our congratulations to Kit Thomas for achieving the "double". The Departmental Cup went to the Tropical Department.

The Annual Revue was held this year just before Christmas at the Bull Hotel, East Sheen. This year we showed the Students' own film, "Carry on Kew", a production by the Drama Group over a period of about two years. Many Staff and Students took part in its production. We had a dance afterwards and it turned out to be a very successful and pleasurable evening.

Finally the Union has in the past year given two honorary memberships to two people who have done a great deal for the Students at Kew, Mr. R. Hughes, Past President of Students' Union and Mr. E. Macdonald (Mac).

K. PEARSON, *President, Students' Union.*

S. ROBBINS, *Secretary.*

## THE STUDENTS' UNION

This year the Students' Union would like to devote some of its space in the *Journal* to a brief description of the present study course at Kew. It will be only a brief account and does not reflect all the activities of the Kew Students; for example the social and sports functions are accounted for earlier. The Union feels that many members would be interested to know what the Course is like today, in the 70's, and to realise how much things have changed over the years.

The new intake arrives in the last week of September and gathers in the Jodrell Laboratory where they are met by the Director (in 1973 Mr. Brenan, the Deputy Director, substituted for him). After a personal talk with each student they are taken for a short tour of the Gardens by Mr. Pemberton the Supervisor of Studies. In the afternoon the lectures commence, and normally these are carried on until Christmas and the block is terminated by examinations. During this period they receive lectures in Entomology, Mycology, Plant Propagation, Structural Botany and Glasshouse design and construction. They also make several visits to the Agricultural Research Council Institutes and other centres of horticultural importance.

After Christmas the First Year students then go out into the Gardens proper to start their first year of practical work, whilst those on the Second Year start again on their lectures. The subjects which they study are Land Surveying, Genetics, Plant Physiology, Horticultural Physics and Chemistry, Plant Ecology, Systematic Botany Part I and Amenity Horticulture Part I. Again at the end of the three month period there are examinations, which like the previous year, are set by external examiners and marked by them also. After this lecture block they return to the Gardens for a further practical year and the Third Year students embark on their lecture block. In this third and final three-month period, the subjects covered are Amenity Horticulture Part II, Systematic Botany Part II, Horticultural Machinery Management, Arboriculture, Landscape Design and Construction. In these lectures and in some of the previous ones, outside lecturers are brought in for specific topics and also for some of the lecture courses where suitable staff are not available at Kew.

Throughout the Course the students still have the regular bi-weekly identification tests and competition is just as keen as ever. A project thesis upon a subject of horticultural interest and a plant collection is also undertaken. In addition they look after a small plot devoted to the raising and growing on of arboricultural subjects, maintaining these for the whole of the three year period. Work within the Gardens has altered slightly over the years in that today the Living Plants Division is now divided into six sections. These are the Tropical and Temperate, Herbaceous and

Alpine, Decorative, Arboretum and Arboretum Services. The time spent in each section is planned systematically and for example if a person spends six months in the Tropical Section (usually within one or two sections) they only spend three months in the Temperate section. In the first year of Practical work the student spends 6 months in each of 2 sections. In the second year, six months in one section and two periods of three months in two others, and a final three months in the sixth and final section. This means that today students have the opportunity of spending a period in every section. During these periods of practical work a detailed report form is filled in by the Assistant Curator in conjunction with the Gardens Supervisors commenting upon the standard of achievement of the student. These are later discussed at six monthly intervals with the Student by the Curator and Supervisor of Studies, these appraisal reports should enable a feed-back of information to the students.

In addition to their internal studies many students undertake study for external examinations, the main ones being the Intermediate and Final sections of the National Diploma of Horticulture and the Certificate and Diploma in Arboriculture.

#### AN ACCOUNT OF THE KEW RACE 1973

The Kew Guild Team, consisting of three Scotsmen, two Englishmen and one Cornishman was set for a Kew Guild win, having been so close for the last two years. The Guild's first runner was Brian Roby (1970) (recently appointed to Kew). With no training, having had only three days' notice, Brian did very well to come in 8th. Angus Heron followed and with a brilliant example of relaxed running he pulled the Guild team up three places. David Coleman (1967) followed, showing his paces by overtaking one runner and by closing the gap between the first and fourth runner.

Ian Manders was the third Scot to run on the journey back down the tow-path from Hampton Court. The gap was closed still further with some great even-paced running. The fifth lap was taken over by Ben Penberthy, the Cornish marathon bare-footed wonder—not as fit as in the old days but he lived up to his reputation and pulled the time gap even closer, but the Guild was still in fourth place. Dave Morgan (1972) ran the last lap back to the Herbarium. He ran the three miles in 14 mins. 18 secs., overtaking all the other runners.

The average age of the Kew Guild runners was 29 years, a fine performance against the youthful teams of Kew, Askam Bryan, Rochfords, Pershore, Oaklands, Flintshire and Wisbech.

The Kew Guild thanks Dave Colman and all the members of the team.

DAVE COLEMAN (1967)  
(*A member of the Kew Guild team.*)

## REUNION OF NEW ZEALAND KEWITES

In Christchurch when the Royal New Zealand Institute of Horticulture held its 50th Jubilee Conference and the New Zealand Institute of Park and Recreation Administration engaged in its 40th Annual Conference, the opportunity was taken to have a reunion dinner for New Zealand Kewites. It was held on the 28th February, 1973. Those present were—J. G. (Jack) McKenzie and Mrs. McKenzie, 1934; G. D. (George) Dean and Mrs. Dean, 1937; D. H. (Dennis) Leigh, 1933; P. J. (Phil) Jew and Mrs. Jew, 1955; D. D. (Des) Riach and Mrs. Riach, 1955; C. H. (Clarry) Jones and Mrs. Jones, 1930; J. (John) Lewis and Mrs. Lewis, 1941; J. G. (Joe) Short, 1940; L. H. (Laurie) Lannie and Mrs. Lannie, 1939; J. H. (John) Edwards, 1947; and J. O. (John) Taylor and Mrs. Taylor, 1948.

The guests invited were G. G. Henderson (Lyme Hall, I.P.R.A. 1949) and Mrs. Henderson; W. Scadden (The Grotto, I.P.R.A. 1968) and Mrs. Scadden; and Mr. and Mrs. H. G. Gilpin, Director of Parks and Recreation, Christchurch. Apologies for absence were received from Mr. and Mrs. I. D. Galloway, Mr. Walter Anderson, Mr. G. F. Smith, Mr. Alan Kennelly and Mr. R. W. Balch.

The Loyal Toast and the Toast to the Kew Guild were given by John Taylor and the Toast to Absent Friends by George Dean. Many friendships were renewed and many happy incidents of Kew Days recalled. A highlight of the evening was the projection of a 20-minute colour film made in 1947 by Brian Perkins showing Kew at its best through the four seasons.

John Taylor undertook to keep the New Zealand Kewites informed of news items about the Guild from time to time and to initiate the organisation of reunions when the opportunity presented itself.

Our thanks to John Taylor for this report.

## PLANT COLLECTING IN SOUTH AMERICA

My enthusiasm for South America was first inspired by an article which appeared in an evening newspaper high-lighting the plight of the Amer-Indians and the plants of the Amazonas, Brazil. From that moment my great desire was to visit this vast continent of infinite contrasts, but it was not until the late summer of 1971, at the end of the Kew course when my award of the Ernest Thornton-Smith was announced that the dream began to materialise. Further financial help quickly followed when through the offices of the Kew Guild, Mr. T. R. N. Lothian, Director of Adelaide Botanic Garden subscribed a sum of £163 towards the cost of the expedition, in return I was to send him living plant material. My aims were firstly to collect live plants with an

emphasis on Bromeliaceae and Orchidaceae, but I also intended to study as many examples of landscape architecture and arboriculture as possible.

At the end of September at only 48 hours' notice, the Booker Line offered me a free passage on one of their merchant vessels to Manaus, 1000 miles up the Amazon. Despite unsolved problems with visas I thought it advisable to accept this generous offer and I boarded the M.V. *Boniface* at Cardiff on the 3rd October 1971 with a mixed cargo of race horses, rum bottles, lorries and many other items. The voyage, via Dublin, Barbados and Trinidad was quite eventful for the ship broke down in mid-Atlantic, and during this halt a herd of approximately 30 whales inquisitively nosed around the ship for some time.

At Port of Spain, Trinidad, I changed to the sister ship *Bernard* in an effort to make up for lost time. Little did I know that this boat would also break down, forcing us to limp down the coast of South America to Belem on the mouth of the Amazon. Once more a change, this time the smaller M.V. *Cuthbert*, for the 1000 mile journey up the Amazon. With my hammock slung up on the bridge deck I would lie swinging to and fro with a nice cup of tea, watching the rising sun spot-lighting the colourful birds as they rose from their jungle roosts. The black waters of the River Negro join the muddy brown Amazon just below Manaus and the effect is quite remarkable for the two colours remain distinct with little mixing at this point.

My plans included a plant collecting trip from Manaus, for I was to join an expedition led by Dr. Prance of New York Botanic Garden. Unfortunately the Brazilian authorities would not grant a collecting visa. Undaunted, I flew down to Brasilia to spend a few pleasant days sightseeing. It proved to be a city of contrasts for a short distance away from the ultra modern architecture of Niemeyer and Costa are found shanty towns. It was noticeable too that even modern blocks of flats appeared to be rapidly turning into slums.

For economy reasons I continued my journey by the fast and efficient coaches system to Rio de Janeiro, a large city set like a jewel nestling among steep verdant mountains against a backcloth of the blue Atlantic waters. Here were the finest examples of the work of the landscape architect Burle Marx and I was fortunate enough to meet him on several occasions. In addition to sightseeing in the city much of my time was spent collecting in the mountains with members of the Botanic Gardens. It is surprising that many new species are still to be found on the mountains near Rio. Further south collections were made in the Serra do Mar Mt. range with a team from Sao Paulo Botanical Institute, and at Ubatuba, with staff from Campinas University.



It was surprising that some of the old beaches at Ubatuba were covered with tall yellow orchids and flowering bromeliads, in fact they were in such profusion it was difficult to avoid crushing them under foot. As an example of the kindness and help I experienced everywhere, Professor Brieger suggested I use Campinas University as a base, also further collections were later made in the mountains with the Botanical Museum, Curitiba, as my headquarters, offered through the kindness of the Director, Gert Hatschbach.

Here my climb started with Pico do Marumbi, a mountain in the Serra do Mar, but it was soon evident that a knowledge of mountaineering would have been a great help. The going was tough, but worth every step with collections also being made around Colonia Floresta, Antonina and Serra Negro. As I penetrated to the south it became more and more difficult to differentiate between certain species for the dry weather which had been experienced earlier in the year had affected flowering. As a result it is probable that many exciting species were missed. My travels were full of interest but nothing was stranger than the remnants of Voodoo rites, which would often consist of candles but on one occasion there was a twelve-inch figure made in great detail which had been beheaded and was propped up in a tree. My journeys from Curitiba included a visit to the spectacular waterfalls at Foz do Iguacu on the boundaries of Argentina, Paraguay and Brazil. 1000km. further south I entered the small coastal town of Itajai in Santa Catarina, a state rich in bromeliads. My contact was Dr. Klein of Rodrigues Herbarium and as he was about to start on a collecting trip further south on Florianopolis, a small island just off the coast, I was invited to join him. We made collections in this locality and also on Mts. Morro and Camberla on the mainland. It is surprising the number of new species which are to be found in these locations. Of the 200 *Orchis* sp. found growing on the island only one new species has been found yet there were six finds among the comparatively few Myrtaceous subjects found to date. Florianopolis with its pure white sand dunes which are hundreds of feet high and the sleepy fishing villages which terminated the long dirt roads were indeed very pleasant but to actually be invited into a fisherman's humble smoke-filled home, to drink coffee and eat water melon while trying to converse with the whole inquisitive family, was an experience not easily forgotten.

Once the plants had been given the necessary phyto-sanitary certificates and were on their way to Kew and Adelaide my journey continued by plane to Argentina with a short stop at Porto Alegre. Here I had some unexpected luck, and was able to join Prof. Irgang and Prof. Batista in journeys into the nearby dry mountains by the coast. The habitats were very diverse and we were able

to get material of some interesting *Dyckia* species and my first two bulbous species. I found some of the local customs very strange, for example the office workers at Porto Alegre have an unusual activity which is known as 'footing'. They meet in the main street 'after hours' and pace up and down furiously chatting together.

With my collecting in South Brazil at an end my travels took me to Buenos Aires which surprisingly had a European appearance. Again I was lucky for a botanist from the Botanic Garden accompanied me on a boat trip on the Parana Delta when we were able to visit the many islands, the only habitats and areas left for the local flora. My journey continued by train across the vast pampas plain to the west side of the Andes, where I boarded a mountain train for a memorable journey across the Andes. Once over the Chilean border the flora changed from the sparse shrub growth and cacti on the lower slopes of the Argentinian side, to rich flowering alpinines. During the descent the flora became richer and the tall numerous cylindrical Cactus, *Cereus chiloensis* adorned with bright scarlet parasites resembling flowers, grew amongst floriferous low shrubs.

So to Los Andes where a coach sped me along the dusty roads to Santiago. Time was so limited that I could only visit the coastal Andes but I was fortunate to have the company of Prof. Kummerow and a number of students from Santiago Catholic University. The trip was connected with a study which was being made of the flora of Tiltill thought to be almost identical with one which is in an area of California. With just a glimpse of the Pacific my flight back over the Andes landed me at Montevideo, Uruguay and from there I travelled to Rio for the second stage of my collecting expedition in Brazil. From Itabuna, via Bele Horizonte my journeys took me to the Government Cocoa and Rubber Institution, Ceplac. Here the provision of a vehicle, driver and guide made it possible for me to undertake a 1,000 km. trip in a bid to collect some of the most colourful of the Bromeliads. From a coastal route through coconut plantations we struck west across the dry forest area and up into the dry coatinga zone where in the arid and rocky conditions, snakes abounded and with no serum in the medical kit the risks were great. The trip ended with collections being made in the coastal forests. In order to comply with airline regulations, a phyto-sanitary certificate was necessary, but the variation in the way in which the various plant health inspectors interpreted the regulations was quite remarkable. Some just inspect one or two specimens in a consignment, others insist on a complete insecticidal dusting, while one official spent a whole day on a consignment.

My journey took me to Salvador, regarded as one of the

richest of the Brazilian cities, packed with art treasures and churches with interiors that are actually covered with gold leaf, but I left to journey up the coast to Recife, thence to Fortaleza, where thankfully I found the remainder of my allowance waiting for me.

My visit to Cayenne, French Guiana was a short one, to be followed by a move to Georgetown, an appealing city with large brightly coloured wooden buildings. So to Trinidad where I spent a week collecting in the mountains with guides and transport which were supplied by Prof. Cope and Dr. Goodband of St. Augustine University. Jamaica was also on my itinerary where I was the guest of Colin Duncan (1953) and later of Mr. Diedrick (1964), the Curator of Hope Botanic Gardens and both were very helpful to me, assisting with further collections.

My route to Barbados where I was to be the guest of Richard Coghlan (1959) made it possible for me to visit the countries of Haiti, Puerto Rica and Antigua. On reaching my destination a period of relaxation in the sun broken by visits to the many examples of landscaping gave me time to reflect upon the past few months, the places I had visited and the kindness and friendship I had met everywhere.

May I complete this account by thanking all who had made this trip possible and a special thanks to the Kew Guild and the Kewites, and Kew Staff who afforded me such generosity.

MALCOLM LEPPARD (1971)

(*Awarded the Ernest Thornton Smith Travelling Scholarship, 1971*)

#### “THE EARLY DAYS OF BEDGEBURY PINETUM”

The first plantings at Bedgebury were made in March 1925. It was then a joint undertaking between the Forestry Commission and Kew. The early agreement was that the Forestry Commission provided the site, and during the first year undertook the clearing and the erection of a fence round the area. Kew provided the plants, supervised the planting and carried out the labelling. The expenditure of an additional sum of £100 had been granted by the Treasury for the work to be used during the year March 1924 to March 1925.

The early plantings were planned by William Dallimore, who continued to play the leading part at Bedgebury until 1946. Here we may quote from *A Gardener's Reminiscences* by Dallimore, p. 716—“As the £100 allowed had to be used by the end of March 1925, it was necessary that a certain amount of work should be carried out before that date. In addition to plants raised at Kew and others which had been purchased, a considerable number had been presented by the late Col. F. R. S. Balfour, therefore a good deal of planting was contemplated.”

With this introductory the following account sent in by Mr. Coates takes up the tale—"About the time when rumours of a National Pinetum were widespread I was working near the Arboretum Nursery at Kew when Sir Arthur Hill, the Director and Mr. W. J. Bean, the Curator beckoned me. They told me there was a scheme in hand to form a National Pinetum at Bedgebury, and that they had me in mind to help with the work.

"In the course of time the first consignment made its way from Kew to Bedgebury with the late Jack Tallett as the lorry driver. There were two species, *Picea asperata* and *Picea likiangensis*, neither of which grew very well at Kew. As the clearing had not been completed they were planted temporarily in the Lodge Garden.

"On the second load we took more young conifers and a selection of tools to work with. On arrival we were met by Mr. Dallimore and Mr. Castle, the head forester. We were to meet many times later, but on this occasion he was directing the clearance, for the area was strewn with timber and logs." (Of Mr. W. Castle, Dallimore wrote: "He was recommended as a forest worker who in his young days had some garden experience. This man turned out to be one of the best and most conscientious workman with whom I ever had to deal. I liked him from the first and always compared him with Mick Collins, a ganger I had under my control at one time at Kew. Both were unassuming men, excellent workmen who could be trusted implicitly, took a keen interest in their work and could be depended upon to point out anything which they thought demanded special attention. Castle remained to become graded as a forester and retired on reaching the age limit in 1950.") (William Dallimore was always appreciative of the good skilled worker.)

Returning to Mr. Coates, he continued: "Mr. Dallimore and I planned and planted together, draining where the ground was wet and boggy, particularly near a small hut which we found most useful at times." (It is worth noting that the start was indeed a very small one. Of this Dallimore wrote: "As we could afford them we purchased the necessary tools, which resulted first in a temporary arrangement with the gamekeeper for the use of a corner of one of his sheds, and later by the transfer by Crown Lands of a small brick shed. It was one of four that had originally functioned as kennels for a pack of beagles.")

Mr. Coates wrote of the difficulties of travel to and from Bedgebury: "I found time to look for a place to lodge and this was at the hamlet of Kildown. As work continued our snacks were taken in the open by a log fire. Over this was hung a large vessel of water and into this from time to time we threw quantities of tea which we drank often without sugar or milk."

The main planting was carried out in February, 1926, when Mr. Dallimore spent the full month at Bedgebury—"staying the nights at the Railway Hotel, Hartly, four miles away". For this planting several workmen were sent from Kew.

Shortly after this a workman was employed wholly by the Pinetum Committee under the control of Mr. Dallimore, who visited Bedgebury at monthly intervals from Kew where he was by this time Keeper of Museums (appointed 1st April, 1926).

To end this account with Mr. Coates: "My journeys were then reduced but I had during my visits helped to plant most of the original plants except the Taxodiums and Metasequoias, which were later put out near Marshall's Lake. The very first Conifer to be planted in its selected and permanent position was a Larch."

Thank you, Charles—very interesting.—ED.

### KEW CHRISTIAN FELLOWSHIP

The work of the Kew Christian Fellowship over the past has taken two forms. The first was that of "outreach" to the Gardens, in which we seek to share our beliefs with other members of the staff. This the Fellowship has sought to do by showing films such as "Voices of the Deep" and "City of the Bees" in which God's work in nature is shown. The film "The Great Mr. Handel" drew the greatest attention from the Gardens and Herbarium and put over the inspiration Handel received while writing his greatest work, "The Messiah". The previous Chairman of the Fellowship, Mr. Adrian Robinson, was instrumental in the arrangement of these films and on behalf of the Fellowship I would like to thank him for his work over the last three years during his studentship at Kew. The Christmas Carol Service in the Jodrell common room was held as usual and we were privileged to have as the guest speaker the Rev. Norman Sinclair from Duke Street Baptist Church, Richmond.

The second form was that of Christian Fellowship in the normal Friday lunch hour meetings. They consist of prayer and Bible study in which The Scriptures are studied with a view to helping members with their own personal walk with God. The Fellowship is affiliated to the Workers' Christian Fellowship and is privileged to have the general secretary of the W.C.F., Mr. G. V. Hammond, to occasionally speak at these Friday meetings. These are open to all and those who do come will find a warm welcome waiting for them.

We look forward to the coming year with enthusiasm, praying that God will open to us more of the spiritual reality in the Bible and to also enable us to share the Gospel of Jesus Christ with others at Kew.

JOHN W. HACKER.

## NOTES ON BRITISH BIRDS SEEN AT KEW DURING 1973

- Blackbird.** Common.
- Blackcap.** Three heard in Queen's Cottage grounds on 11th June. Possibly bred.
- Bullfinch.** Seen frequently.
- Chaffinch.** Fair numbers.
- Chiffchaff.** Heard singing in the Bamboo Garden and the Queen's Cottage grounds. Possibly bred.
- Coot.** Common.
- Cormorant.** Seen occasionally in flight. Up to ten roost in tree in Syon House grounds opposite Mount Pleasant.
- Crow, Carrion.** Common.
- Dove, Stock.** Two heard in the Queen's Cottage grounds on 15th July.
- Dove, Collared.** Has been seen and heard in the Gardens.
- Duck, Tufted.** Very few were seen.
- Fieldfare.** Seen in small parties in the Gardens during cold spells.
- Flycatcher.** Spotted.
- Goldcrest.** Young seen in most years, well distributed.
- Goldfinch.** Five seen by the Lake on 22nd March. Young seen in the Herbaceous Dept.
- Goose, Canada.** A pair with two young by Kew Bridge.
- Grebe, Great Crested.** One seen on 11th June on the Palm House pond.
- Grebe, Little.** Two pairs seen on the Lake.
- Greenfinch.** Young have been seen.
- Gull, Black headed.** A common winter visitor.
- Gull, British Lesser Black-backed.**
- Gull, Common.**
- Gull, Herring.** Seen in small numbers from time to time during the winter and spring, mainly over the Palm House pond.
- Heron.** One often seen by the Aquatic Garden at dusk during the winter. Frequent over the Gardens by night. (Heronry is in Syon H.G. opposite Mount Pleasant.)
- Jay.** A fairly common bird.
- Kestrel.** At least one pair bred.
- Kingfisher.** One seen by the Syon House grounds river bank proving that at least one pair was in the area.
- Linnet.** As many as ten together have been seen but also singly.
- Magpie.** At least two pairs have been seen.
- Mallard.** A common breeding species.
- Martin, House.** A considerable number seen in the spring and autumn "hawking" for insects over the Lake.
- Martin, Sand.** Seen in small numbers over the Lake.
- Moorhen.** Common.
- Nuthatch.** Fairly common.
- Owl, Little.** There is often a pair in the Oxen House Gate area.

- Owl, Tawny.** Is fairly well established.
- Pheasant.** Breeds well in the Gardens.
- Pochard.** A number reached maturity.
- Redpoll.** Considerable number seen with Siskin in the Larch collection.
- Redwing.** Seen in considerable numbers in cold weather, especially in the Rhododendron Dell area.
- Robin.** Common.
- Siskin.** Considerable numbers have been seen in the early spring.
- Snipe.** One was picked up in an exhausted condition during December. Later it was released in Queen's Cottage grounds.
- Sparrow, Hedge.** Very common.
- Sparrow, House.** Common.
- Sparrow, Tree.** Three in Queen's Cottage grounds in May.
- Starling.** Common.
- Swallow.** Observed over the Lake in the spring.
- Swift.** Breeds in the Kew Gardens area.
- Thrush, Mistle.** Often seen on the Golf Course in small parties.
- Thrush, Song.** Has retained its numbers well.
- Tit, Blue.** Common.
- Tit, Great.** Common.
- Tit, Coal.** Common.
- Tit, Long tailed.** With the mild winters numbers have increased.
- Treecreeper.** Not seen regularly but breeds at Kew.
- Wagtail, Grey.** Seen from time to time.
- Wagtail, Pied.** A pair or two breed.
- Warbler, Willow.** Has not been heard this year. Numbers have decreased in recent years.
- Woodpecker, Great Spotted; Woodpecker Green.** Both breed within the Gardens.
- Woodpecker, Lesser Spotted.** Seen from time to time especially in Queen's Cottage grounds and possibly breeds.
- Woodpigeon.** Common.
- Wren.** Is well established.
- Woodcock.** Has not been seen this year but may exist in Queen's Cottage grounds.

We thank Mr. Mitchell, one of the Official Bird Watchers, for this list.

## WATERFOWL AT KEW

For many years the collection of waterfowl by the Lake and to a lesser extent the Palm House and Lily Ponds has been built up into a unique representation, mainly as a result of the enthusiasm, dedication and expertise of Harold Allen, who has been on the staff of Kew since 1956 and has been our "bird man" for most of this period.

### Swans

**Black-necked Swan** ((South America). At present we have only one of a pair and this is at a zoo on the Isle of Wight for breeding purposes.

**Black Swan** (Australia). They breed regularly at Kew, usually during February. The female has been at Kew for 15 years and has bred throughout this period.

### Geese

**Barnacle Goose** (Greenland). It is hoped that they will breed at Kew when they settle down.

**Canada Goose**. These are very plentiful and often fly into Kew in large numbers.

**Chinese Goose**. The flock at Kew is very active and noisy at times.

**Emperor Goose** (north west coast of Alaska). Has bred in this country and we hope that it will at Kew.

**Lesser Snow Goose** (North America, Arctic Coast). They have not bred at Kew but they have done so in this country.

**Red-breasted Goose** (Siberia). Rare in this country. Has laid at Kew, but they did not hatch. Their habit of nesting in the open completely makes breeding very difficult.

### Shelducks

**Common Shelduck** (Western Europe). Breeds regularly at Kew.  
**Paradise Shelduck** (New Zealand). Breeds regularly at Kew. They are among the first to lay.

**South African Shelduck**. Breeds regularly at Kew but is very aggressive, especially the drakes. Now we keep only ducks.

### Dabbling Ducks

**American Wigeon**. Have not bred at Kew but they have done so in this country.

**Bahamas Pintail**. Have not bred at Kew but they have done so in this country.

**Chiloe Wigeon** (Southern South America). Have not bred at Kew but they have done so in this country.

**Falcated Teal** (Japan). Has not bred at Kew, now we have a male only.

**Mallard** (wide distribution, including Britain). Very common.

**Marble Teal** (Southern Spain). Wide distribution including Britain. Very common.

**Northern Pintail** (northern parts of Europe). Breeds at Kew.



### **Pochards**

Common White Eye (wide distribution). Has bred at Kew.  
Red-crested Pochard (Europe and Asia). Wide distribution. Has bred at Kew.

Long Bill (southern parts of South America). Has bred in this country. A male at Kew.

### **Perching Duck**

Australian Wood Duck (Marsh Goose). Nests in high trees.  
Breeds at Kew if left unpinioned.

Carolina (North America and Southern Canada). Has bred at Kew.

Mandarin (China). Breeds regularly at Kew.

In addition, of course, Coots and Moorhens are very plentiful on the Lakes and Ponds.

Also we now have a pair of Peacocks, the male having been caught by Mr. Ailen on the railway embankment near Kew. Pheasants continue to be plentiful while a recent acquisition are a number of Red-Legged Partridge.

### **NOTES AND GLEANINGS**

E. N. Akah is Head of the Landscape Unit of the Government of East Central States of Nigeria.

Leslie Akanle (1964) is in charge of the Landscape Unit in the North Central State of Nigeria.

Anthony Andoh (1972) wrote in during November, announcing his arrival in Zambia—"I am starting up a horticultural section in the Copper Belt Province. It will be challenging. I gather that M. Bentall (1947) was in charge until he left for South Africa two years ago. Kew is held in the highest esteem here and I am very grateful to be a Kewite."

H. P. Barnes (1960) has left the County Borough of West Bromwich where he was Parks and Cemeteries Superintendent and is now Chief Recreational and Amenities Officer with the Metropolitan Borough of Sandwell. This post is under the Director of Technical Services and has the status of Deputy Chief Officer.

M. Bentall (1964) was appointed as Deputy Director in the Parks and Amenities Department in East London during the Autumn. Previously he had been Parks Superintendent with the Borough of Amanzimtoti, Natal, for two years.

W. E. Bessler (1967)—"I have left the services of the Greater London Council and I have accepted a post with Renton Howard Wood Partnership in London as their Landscape Architect. They are well known for their St. Katherine's Docks Scheme and the Tower Bridge Hotel, amongst others, including the North Sea Oil Project.

J. Beswick (1967) has been elected an Associate of the Institute of Landscape Architects. He is attending a Part Time Post Graduate Course at Manchester Polytechnic and is also studying for the Dip. I.L.A.

Peter Styles (1969) is studying for the Diploma of the Institute of Landscape Architects.

Robin C. Bletsoe (1972) completed the Institute of Parks and Recreations Administrative Staff College course in December. He has secured a post as Parks Officer of Harlow, Essex. Robin is working on the development of a Butterfly and Moth Garden within the expansive grounds of the town's museum. He is still planning to visit America when he has sufficient finance and he hopes to follow this up with a visit to South Africa in 1977. The object of these trips will be to continue with his study of Cycads.

Arthur H. V. Borrett (1948) who is employed by Messrs. Notcutts writes—"I am seldom able to visit Kew but I like to read news of old friends. I keep busy in the Garden Centre mainly advising customers and giving talks to various organisations".

Gilbert E. D. Briscoe (1961) wrote that his training centre for Africans in Johannesburg Parks Department is a great success and that an account of the scheme is to appear in the *Journal of the Institute of Park Administration*.

D. A. Brown (1950) who is Director of Horticulture at New York Botanical Garden visited Kew during October.

R. Chandler is now Landscape Clerk of Works for the Lee Valley Regional Park Authority.

Charles (1949) and Mrs. Coates attended the Annual Dinner and visited the Gardens during his stay in this part of the country. He made an extended tour through the rock garden and up to the area of the Pagoda where he was able to admire the specimens of *Picea omorika* before a visit to the Sorbus Collection—a "must" so far as Charles is concerned.

Geoffrey Chalk died early in 1973. He was the sole owner of the large landscape contractors Messrs. Gavin Jones, a famous firm founded by Col. Gavin Jones. The firm had the contract for the layout of the Queen's Garden behind Kew Palace (officially opened by Her Majesty Queen Elizabeth on 14th May, 1969) and the high standard of the work, particularly the stone and brick work, is in no small measure due to the insistence of Geoffrey Chalk who made frequent visits to the site, that only the very best was sufficient.

Jack Cheek (1929) and his wife are firmly settled in their retirement home at Maidenhead and have visited Kew on a number of occasions.

George Chippendale, on the occasion of finishing his term as Australian Liaison Officer, presented to Kew an attractive print of Eucalyptus, which are his special interest (*K.G.J.*, 1972, p. 138),

made from a painting by an aboriginal artist, Albert Namatjira, done in the Northern Territory of Australia. This print is hung in the Herbarium Staff Room.

Reg. J. J. Claiden (1957) who for many years worked with the late Ernest Dunk in the pay office, is now Chief Common Law Assistant to the Town Clerk, Brighton Corporation. He writes (22nd February, 1973)—“Joyce and I are most happy to be returning to the South. We shall naturally seek a tennis club in Brighton, but hope to have a game or two at Kew when we spend an occasional weekend with my parents at Twickenham. Kewites will no doubt be pleased to hear that Jim Claiden has made a very good recovery from the heart attack which he suffered twelve months ago”. (Jim was the “bird-man—pest officer” for many years.)

Geoffrey Cole (1971) is Assistant Parks Superintendent with Torbay Parks Department. He wrote—“My work involves the day to day running of the southern half of the department which employs 80 men. The area covers Oldway Mansions, Paignton, Goodrington, Brixham, Berry Head Country Park and Cemetery and also allotment areas and other estates. Torbay is famed for its fine parks and gardens.

“Our accommodation is rather unique too for it is a 19th century gatehouse by the entrance to Cockington Park, a large and beautiful area with extensive plantings of Rhododendrons and many rare plants.

“Our son David, who is nearly six months old, is thriving and is a real bundle of joy.”

Mrs. A. P. Craig (1920). We heard from Mrs. Corbett, widow of Wilfred Corbett (1925) that Mrs. Craig is 92 (letter dated July, 1972)—“She moved to Kent in 1931 after her husband died. She was matron at Swanley College for Girls”.

H. R. Dally (1953) is one of the five directors of Guernsey Plants Ltd., a recently formed island group which has started to send ornamental stock to the mainland. There are seventeen subscribing members whose total area exceeds 100 acres.

R. G. C. Desmond, Librarian, resigned from Kew on the 25th January and at a ceremony in the Herbarium Library the Director presented him with a cheque and a card of signatures. The Kew Guild thanks Raymond for his help and advice with the *Journal*.

Ray's new appointment is Deputy Keeper at the Indian Office Library. He came to Kew in August 1961 in succession to the late H. S. Marshall. Previously he was Deputy Librarian at M.A.F.F. headquarters in Whitehall Place. During his time at Kew, Ray was responsible for the Library being moved from its old cramped quarters in Hunter House to the new accommodaton in Wing D. In the words of Mr. Brenan (Newsletter, January 1973)—“His departure leaves a Library very different from the one he found, much richer, more efficient, and more able to fulfil the demands

made on it by present-day botanical development.

Donald Dyke (1961) wrote in during October—"Life is very hectic at the Department of the Environment trying to cope with the current road building programme and just to add to our trouble the landscape architects are now very much in demand as specialist witnesses at public enquiries.

K. Eccleston (1972) completed the Inst. Parks & Rec. Admin. Staff College course in December and is now Technical Assistant with the Stoke-on-Trent authority. He is engaged mainly on reclamation work.

J. Elsley (1964), who left the R.H.S. Gardens at Wisley in August, where he was Botanist, is now Curator of Hardy Plants at Missouri Botanical Garden (Shaw's Garden). He has settled down well in his new post although to use his own phrasing—"It hardly seems a month since I arrived here in St. Louis, so much has happened to me that I feel that I am standing on my head rather than my feet. Everybody is very kind, but it is such a contrast. For the first two weeks the temperature was in the 90's and 100's, with high humidity. At night it did not fall below 70°F. and one just had to dress according to the prevailing conditions".

Later he wrote—"I feel sure that I will enjoy working here and the task of building up the hardy plant collections will present plenty of challenge. Labour is a problem and there is a lack of good gardeners but I guess this problem is world wide".

Graham Gaskin (1967) is now Landscape Architect to the new Local Authority of Wyre Forest.

Ian Galloway (1952) was awarded the Associate of Honour of the Royal New Zealand Institute of Horticulture in 1972.

Andrew Geddes (1961) writes—"I have been practising as a Landscape Designer in my own capacity in Auckland for eleven years and now have a thriving practice in this rapidly growing, perhaps most progressive city in New Zealand. My greatest claim to fame has been the winning of the Civic Square competition jointly with a team of architects which have been sharing a joint practice. If any Kewites are visiting New Zealand we would be delighted to meet them and offer more hospitality from this end."

John Gilbert (Kew) is the author of an excellent publication—*Wansfords Paper Mills, Their History and Romance*. In her foreword Pamela Luson, the authoress, writes "Being a native of Stibington where the paper mills were situated, Mr. Gilbert has always been interested in the history of this parish. However it is only since he has been working in the London area that he has been able to avail himself of the existing opportunities available for such a study which has included many visits to the Reading Room of the British Museum, the National Newspaper Library at Colingdale, and many other libraries as well as visiting various

County Record Offices, Somerset House and the Public Record Office.”

T. Gilbert (1972) completed the Institute of Parks and Recreation Administration Staff Course in December and is now Landscape Assistant at Swindon.

Peter A. Goodbury (1969) passed the final N.D.H. in Section III.

A. R. Gould (1910)—Wrote in during November—“At 86 I am a Consultant and also an Adjuster for Insurance Companies. When the motorist hits a tree, damages shrubs or ruins a lawn, etc., I am called in to assess the damage and often to see that it is put right.”

Referring to the query which was made concerning Mr. John Maclaren (*K.G.J.* 1966 p. 705) Mr. Gould writes—“He was appointed Superintendent and held the position for many years at the Golden Gate Park, San Francisco, one of the finest parks on the Pacific Coast—a tribute to the work of this great Scotsman whom I first met on my arrival in 1914. John was then engaged in covering walls of wire netting, 10ft. high with Ice Plant, *Mesembryanthemum roseum*. For three years he had been growing these in boxes or flats and they were placed sideways to make the living wall. John Maclaren was in charge of the Gardens or main layout of the 1915 Pacific Exposition in which I also played a part.

“John was a Kewite and a great admirer of Kew and copied the Palm House to some extent in design when the glasshouse was built in the Park. He also copied the Rhododendron Dell and imported some fine Rhododendrons from England. He was over 90 when he retired and he died a few years later. We were good friends until the last.

“I met another Kewite on my arrival here, George H. Hecks, who was then State Horticultural Commissioner, who later had the position changed to Director of Horticulture and he instituted the first Quarantine Inspectors Stations. George was proud of being a Kewite and was a great Horticulturist and built up a great department for the State.

“I remember walking to Covent Garden with Charles Oldham one night and slept on the embankment creeping late through the gate in the morning.

“I also met Jack Watts who worked for a nursery in Los Angeles and also for a florist in Hollywood and I even helped him out during a visit by making up miniature gardens. A customer enquired about me, Jack replied—‘Some years ago we worked together at the very famous Gardens at Kew.’ Jack by the way pulled me out legs first from the Palm House when I was overcome by tobacco fumes. We were fumigating with the ‘Kew Brand’ tobacco which had been seized and sent down by the Customs Department.”

Peter Green, the Deputy Keeper of the Herbarium visited Paris in June as a member of a UNESCO panel on "Ecology and the Rational Use of Island Ecosystems."

Robert and Winifred Hebb (1968) gave us news at Christmas that their second daughter Sarah was born on 15th December. Winifred is their eldest child.

Stewart Henchie (Kew Student until September 1973) was promoted to Gardens Supervisor in the Temperate House Pits and Arboretum Nursery on 1st October.

The Director, Professor J. Heslop-Harrison, spoke on the 8th November at the Royal Society of Arts on "Genetic Resource Conservation"; "The end and the means." This was appreciated by a large audience representing a wide variety of interests. The Director visited South Africa from the 24th June to the 12th July to participate in a Special Meeting of the South African Association for the Advancement of Science—"Growing points in Science." He also attended as a delegate the official opening of the new building of the Botanical Research Institute in Pretoria and gave an evening address to the South African Association of Botanists.

Jack Jackman retired from the post of Supervisor in the Decorative Department on the 20th August.

Gordon Johnston (1949) who is Assistant Curator at Glasgow Botanic Gardens with Eric Curtis (1956) as Curator wrote on August 17th—"You may be interested to learn that this week we celebrated the centenary of our Temperate House, the Kibble Palace." Gordon sent us an interesting leaflet which gave details of the history and of the original agreement. It was formally opened to the public on 20th June, 1873. Until the time of its erection in Glasgow it was John Kibbles' own private conservatory—he had it dismantled and towed on a raft up the river to Glasgow. (John Kibble "was an engineer and business man, also a keen photographer. It is said that he made the largest camera at that time. Its plates measured 44in. x 35in., it was mounted on wheels and drawn by a horse." (Leaflet—The Kibble Palace, Corporation of Glasgow Parks department.) It is also interesting that Sir Joseph Hooker planted out the now famous tree ferns as part of a winter garden.

Gordon wrote—"At the reception held on Wednesday evening just over 100 attended, when much of the music played at the opening ceremony was again played, this time from a tape recorder, whilst guests strolled through the Tree Ferns."

Jim Keesing (Scientific Officer, Gardens Department), obtained his B.Sc. (Upper 2nd) at Birbeck College, University of London.

Mr. and Mrs. A. Kuyama who left Kew in September have returned to Japan. "Our trip was exciting and successful. In India most of our time was spent at Udais house (an old student) in Kalimperg. We set out from there to collect Orchids and seeds.

In Sikkim we went up to Margan with special permission, but we missed Bhutan owing to the period of mourning for the late King.

Leslie Laking (1941) Director of the Royal Botanical Gardens in Hamilton, Canada, was awarded honorary degrees from two universities in 1971.

K. M. Lycett (1960) wrote in during the late summer—"I am rather busy at this end with stocking and equipping a new rural studies laboratory which is to be fully equipped. With the raising of the school leaving age I am in the process of organising a number of courses which I hope will be interesting and instructive."

E. W. Macdonald—"Mac"—retired from Kew in 1973. "Mac" of course was our veteran toastmaster at the Annual Dinners and he was presented by The President, on behalf of the Kew Guild, with a record token in recognition of his services. This pleasant ceremony took place at the Tea after the A.G.M.

Later in a letter of thanks he wrote—"For my part I have always enjoyed being Toastmaster at the Annual Dinners, and I was so very disappointed that illness prevented me from functioning on the last occasion." He also wrote—"Although I have retired I find plenty to do, working on Egyptian hieroglyphics, walking, reading and listening to music."

Frank G. Mackaness (1938) wrote in during October. He is a very active and keen supporter of the Kew Guild. He writes—"I retired at the end of June from the position of Manager of the Horticultural and Agricultural Advisory Department of the Portland General Electric Company. (Please note Frank's new address.) I doubt that anyone now at Kew remembers me, but they might be interested to know that upon retirement I became Consultant and Assistant to the President of the Frank Schmidt and Son Co. Nursery at Troutdale, Oregon. This company has seven nurseries covering 14,000 acres, one of the largest in the United States. It grows shade and flowering trees exclusively and markets about  $1\frac{1}{3}$  million dollars worth a year. Should any student be interested in an exchange position or a paid studentship I would be pleased to consider the matter."

David Owen (1970) wrote in recently from Lilongwe, Malawi—"We are now fully acclimatised and beginning to feel as if we had been here for months. The temperature was often in the mid-80°s F with an altitude of 3,500ft. This really affected us for the first few weeks. Now as winter approaches it is a little more comfortable.

"Lilongwe is a small town, but as it is now the new capital, it is continually growing. At the present time it has the air of a frontier town. Everything is in short supply and imported goods are very expensive. We have a nice new home and approximately half an acre of garden. The surrounding country is rather flat

and is mainly made up of scrub with villages dotted around. However the area as a whole does not have a wide plant range, for it is too dry in the winter and we are also plagued by white ants which attack many plants including conifers. Among the subjects which we are able to grow successfully are Cassia, Jacaranda, Frangipani, Poinsettia, Hibiscus, Oleander, Datura and Bougainvillea. Cactus and Succulents thrive very well with us.

"Lake Malawi is approximately 60 miles away, but the route passes through some very beautiful country, reminiscent of Scotland. The lake is very pretty with golden sands and clear water which is at 82°F.

"The work is being pushed ahead as quickly as possible and as soon as a new Ministry building is completed we move in with hordes of workmen, engaged in landscape work. At present I have 6 foremen and 150 men, and this is just a start."

Graham Pattison, Gardens Supervisor, has been transferred to the Alpine and Herbaceous Department under Brian Halliwell, Assistant Curator.

Alan Pedley (1959) who until recently held the post of Director of Parks for Lemington Spa Borough Council has been appointed Amenities Officer to the Warwick District Council. This took effect from the 1st October 1973.

After studentship at Kew, Alan worked as Propagator for Paddington Council and as Area Foreman with Aldridge U.D.C. before taking his first Parks Superintendent post at Workington, Cumberland. Later he became a Superintendent in the London Borough of Bromley. Three years later, in 1968, he was appointed Director of Parks and Cemeteries to the Borough of Lemington Spa.

In his new post he will be responsible for park recreation grounds, open spaces, cemeteries and crematoria, museums and art galleries, entertainments (indoor and outdoor including the recently opened Royal Spa Centre), publicity, tourism, baths, medical baths, watering and markets. Alan is a Fellow of the Institute of Park and Recreation Administration and is their Vice-Chairman of the Midland Branch, and is an active member of other professional bodies. His home is at Leamington Spa with his wife and children.

Barry Phillips (1972) joined the Merrist Wood Staff as Demonstrator. After leaving the students course Barry was employed in the Enquiries Section in the Gardens until May 1973 when he joined the Kew Botanical Expedition to the Dolpo Valley, West Nepal with Christopher Grey-Wilson of the Herbarium. They returned with over 300 living plants, 950 dried specimens and 200 items of seed collected from this very remote area.

As a result of this expedition much valuable plant material and many Herbarium specimens have been added to the Kew collection. In one consignment were a number of *Oligoche* worms which were sent to the Natural History Museum. The



museum's experts were delighted with these as they were working on the worm fauna of Nepal.

George O. W. Ranasinha (1964) who was a Voluntary Student under the Colombo Plan is the Director of the Botanic Garden at Gampaha, W.P. Ceylon.

Brian Roby (1970) assumed responsibility as Assistant Curator in charge of the Arboretum Services Department (transport, machinery and tree surgery) on the 7th May.

Mr. Roby commenced his career in horticulture at Oxford University Botanic Garden and followed this with a successful studentship at Kew. He then took the post of Gardens Supervisor at Logan Botanic Garden (one of R.B.G. Edinburgh's satellite gardens) before returning to Kew.

Trevor Savage (1972) took up the post of Horticultural Technician at the Coleg Howell Harris Rural Technical Institute, Penham, Brecon in February. He wrote—"The area is very rural being a National Park with the Brecon Beacons as the centre. The countryside is lovely, the people friendly and there is a very keen core of naturalists and conservationists, who are very active."

C. D. Sayers (1962) who is Horticultural Officer at the Department of Botany at Durham University is busy planning the establishment of a botanic garden. The plantings include a small wood of *Carpinus betulus* which is intended to demonstrate the last interglacial woodland vegetation in Britain. A Neolithic agricultural plot, specialised woodlands and a marsh garden are also planned.

Errol Scarr (1967) wrote in February—"We had the pleasure of meeting and seeing quite a lot of Charlie Rudd (1930) whilst he was in Durban and East London over the past month. He had a very extensive tour of Southern Africa.

"We are very settled in Durban and Elizabeth is growing up quickly. Mike Bental and his wife had a son—Timothy—at the end of January. Jennifer and I send our regards to all our friends at Kew."

A. D. Schilling, Assistant Curator at Wakehurst. During October Tony read a paper entitled "Variations between and within two species and its value to Arboriculture" to the British Association for the Advancement of Science at Canterbury University.

John Simmons, the Curator and his wife attended a dinner party on 9th April at No. 10 Downing Street, given by the Rt. Hon. Edward Heath who was then Prime Minister, in honour of His Excellency Mr. Amir Abbas Hoveyda, Prime Minister of Iran. Mr. Heath presented Mr. Hoveyda with a basket of orchids selected from Kew for his personal collection in Iran. The plants presented were: *Aerangis stylosa*, *Leptotes bicolor*, *Paphiopedilum barbatum* 'Superbum' and *Bulbophyllum purpureorhachis*.

John Smith (1971) has been appointed Parks Manager to the Wyre Forest D.C. which he describes as a go-ahead authority. The Parks, John explains, becomes a section within the Recreation and Amenities Department.

David Stokes—3rd Year Student, passed the N.D.H. General Section.

Grenville E. Stone (1950) has moved to Thailand to take up his new appointment as Managing Director of Thai-Am Tobacco, Ltd. Address—P.O. Box 105, Chiangmai, Thailand. Please note Grenville's address in Devon. He intends to visit England twice a year.

Margaret Stones, who is the principal contributor of the illustrations which appear in the *Curtis's Botanical Magazine* (edited by David R. Hunt) sent 43 Botanical Drawings in Watercolour for an exhibition of her work which was held at P. & D. Colnaghi & Co. Ltd., 14 Old Bond Street, London, W.1 for 3 weeks over the Christmas and New Year periods. See K.G.J. No. LXXVII (1973) p. 146.

Alan Stuttard—3rd Year Student passed the N.D.H. General Section. He was also awarded the Chittenden Prize.

Alan was awarded the Worshipful Company of Gardeners' Prize for his success in this examination.

Alan Titchmarsh was appointed to the post of Gardens Supervisor responsible for Staff Training on the 7th May.

Hubert Taylor was awarded the Gold Medal by the Royal Forestry Society. In addition to his work with trees for the London County Council he has made an outstanding contribution to arboricultural education, including the setting up of the Royal Forestry Society's Certificate and Diploma. He has been a senior examiner for these over the last ten years. There is a full account of Hubert Taylor's work, with a fine photograph in the *Journal of Forestry*, 1974, Vol. LXVIII.

John O. Taylor (1947) was awarded the Associate of Honour of the Royal New Zealand Institute of Horticulture in 1973.

Tim du Val, who left Kew in September, has set up a business in New York City with his fiancé. They are working on indoor gardens, office plantings and in gardens.

W. F. Walker (1937) is Chief Horticulturist and Chief Quarantine Officer at the State Department of Agriculture, Tasmania, Western Australia. He kindly lectured to the Students at Kew on 27th September, 1972.

Richard Ward (1963) is now on his journey with his wife which will take him to India and round Africa. Having left Europe in January 1974 they plan to return to England in September, 1975. Having written to over 70 Old Kewites they hope to visit their departments and in Richard's own words—"to see the results of Kew training!" He will be sending back articles

to the *Gardeners Chronicle* and *The Journal of the Institute of Parks and Recreation*, in addition to general travel accounts for *The Manchester Guardian*.

Details of their plans—India and Malaysia (April to August 1974), East Africa (September to November 1974), Central Africa (November to January 1975), South Africa (January to April 1975) and West Africa and Spain (April to September 1975). Letters will be forwarded to Richard *en route* and further contacts would be welcomed. The address to be used is—254a, Kew Road, Richmond, Surrey, England.

Donald P. Watson (1937), Professor of Horticulture at the University of Hawaii, College of Tropical Agriculture, a very keen and active supporter of the Kew Guild wrote—"For many years now, I have been most appreciative of the influence this organisation has had on my professional status."

G. Watts (1971) was appointed Assistant Superintendent at Brentwood in December. He writes—"The department seems quite progressive and will become a Recreation in April 1974 when the District Councils come into being. The Superintendent is A. J. Mitchell (1963).

John Woodhams (Garden Supervisor, Ferneries) undertook a plant study visit to New Guinea and New Zealand in early December, and returned in the New Year, after a six-week tour. The main work was to study the habitats in which Pteridophytes are found in the wild but John and his wife made a number of selective collections of living material which he sent back to Kew, thus augmenting the living collections.

Stephen White (1972), at the Teachers' Training College, Worcester, is reading Rural Studies for Secondary Education.

J. A. E. Whitehill (1962) visited this country during the year. He was able to attend the dinner and paid a number of visits to Kew.

Philip Williamson—3rd Year Student, passed the N.D.H. General Section.

Alan Wilton has taken a position with Adelaide Botanic Garden and hopes to be in Australia by March.

J. W. Wiltshire (1925) wrote in January—"The *Journal* provides a welcome link with Kew and is greatly appreciated by older members who have little contact with their associates. I left Kew in 1925 having spent three years as a Student Gardener and Subforeman in the Temperate Department. After three years in the Sudan I returned to England and took a Parks appointment in Walsall and later in Gloucester. Finally I joined Cardiff Parks as Deputy Director and remained in this post until retirement in 1965.

Looking back over the years I have many pleasant memories of Kew and of the officers and students of those far off days. Of these some stand out more clearly than others, particularly the late Dr. Turrill, the late Dr. Cotton, the late Jock Coutts and Dr. Hubbard who did so much good work with students.

#### NEWS OF KEW

No. 5, the Cacti and Succulent House, has been re-arranged, the central bed having a landscaped effect. This has involved plunging the pots and tubs with their rims below the surface. The northern half of the house is devoted to stem succulence, while leaf succulence is the theme for the southern end. On the side benching the specimens have been grouped into families. Descriptive notices have been introduced to give the visitor some understanding of these plants and thus make it more interesting. A small area has been set aside for the display of bulbous plants.

The Sherman Hoyte House has also been re-arranged and some replanting has been carried out with material from the U.S.A. and Mexico.

An experiment on a new method of shading has been installed on House No. 10a of the "T" Range. The installation consists basically of perforated aluminium louvres which can be rotated to give various degrees of shade. The louvres are mounted on the glazing bars of the house and are operated by small electric motors. Very little superstructure is required—much less than for the present motorised blind system.

The two old propagating houses (Nos. 22 and 23) in the Melon Yard opposite to the Tropical Pits have been demolished to make way for the first phase of the construction of new glass-houses which will serve the scientific section.

The old Orchid Show Houses in the "T" Range have been landscaped and planted with a selection of *Begonia* spp.

The central benching has been replaced in the Orchid Propagation Houses Nos. 15a, 15b and 15c by a system of vertical frameworking. This has proved ideal as a support for the vast collection of epiphytic orchids which are established on bark as well as a number of bromeliads.

Two beds have been laid out on either side of the path to No. 1, the Aroid House, and in the centre of each a decorative urn, surmounted on a plinth, has been positioned. During the summer the beds were used for a sub-tropical display.

An exciting acquisition for Kew arrived in January—a plant of *Angraecum brevicornu*. This small orchid was originally collected from a group growing on a lemon tree in Tanzania. This was the only known location for this species, but unfortunately the tree has since been cut down.

Many Old Kewites must remember House 2a, the old Filmy Fern House. It has been demolished to make way for a new accommodation building which has been constructed in this area for the Ferneries Staff.

The Herb Garden by the Wood Museum has now been redesigned and now contains a display of variegated and bulbous plants. The selection of the latter group of plants has been made to demonstrate the variation in terms of season of flowering. The sundial has been moved to the small lawn by No. 4.

Work has started on a new Grass Collection on the present site for these plants by the "T" Range. Instead of the old planting which was based upon taxonomic groupings, the plants are to be grouped in such a way that their uses and values are emphasised and accounted for. The following groups have been selected—"Grasses of Economic Importance"; "Grasses of Ornamental Value"; and "The utility uses of Grasses and Alien and Weed Grasses". The statue of *The Sower* has been moved to provide a focal point while the plan also includes a formal pool for aquatic grasses.

An educational display area has been constructed on the site of the old Herb Garden by Cambridge Cottage. Two popular groups of plants have been selected for this area—a collection of bulbs giving an "all-the-year-round display", and popular variegated plants. The plantings have been clearly labelled with the interest of the public in mind.

The machinery, transport and tree gangs have been amalgamated into one central unit—the Arboretum Services Department. This re-organisation has resulted in an increase of the standard and application of mechanisation and the updating of arboricultural practice. The machinery unit includes a well equipped workshop, this having been enlarged into the part of the Stable Yard Building formerly known as the Pump House. (Up to 1923 the water for the Gardens Main System was pumped from the lake, the machinery being housed in the Stable Yard.)

Developments have continued in the Woodland Garden to the South of the Rick Yard. The beds and pathways have been enlarged and scaled to the surroundings in such a manner that the section of Cedar Vista which is in this area has been integrated into the general and expansive layout. A number of Eriaceous subjects which are scattered over the gardens will be planted in this area, thus releasing space for planting new features.

Two new roads have been laid to link the long path in the Queen's Cottage Grounds to the existing Gardens path system—one from the East End to the Larch Collection, the other to the drinking fountain at Isleworth Gate.

The railings which surrounded King William's Temple have been removed and this important feature blends in more effectively with the landscape.

The large central section of the Temperate House has been cleared with the exception of the largest specimens and the few plants which are difficult to propagate in preparation for the roof repair which is badly needed. This section has been closed to the public because of the safety factor. When the repair has been completed the future plantings are to be landscaped.

*Protea laurifolia*, a South African native plant, flowered during September in the Temperate House Pits. This is probably the first *Protea* to flower at Kew for 70 years. The plant was raised from seed sent from Kirstenbosch in 1968 and was sown in March, 1969. They were grown on in the new aluminium glass-house and mercury vapour lamps were used to give extra light during the winter period. It is also possible that the use of capillary watering has been of benefit as the collars of the plants remained dry throughout the year.

Kew put up two exhibits at the Chelsea Flower Show, 1973. In the Scientific Section, Dr. Heslop-Harrison demonstrated the trapping and digestive systems of carnivorous plants. In the main marquee a 40ft. square island site was laid out with tropical vegetation and a pool. In particular Cycads and Economic Plants were featured. The exhibit was organised and arranged by Mr. C. M. Erskine, Assistant Curator and Mrs. R. Storr, Supervisor.

Also the World Wild Fund used a very rare plant from Kew — *Stium helenianum* on its exhibit.

Wakehurst Place continues to develop, for example a terraced bog garden is in the process of being constructed on the site of a large leaking pond in an area known as the "Slips". A Memorial Garden to the late Sir Henry Price, one of the previous owners of Wakehurst Place has been laid out. We look forward to the next *Journal* which will be a special issue containing a full account of the history and the future development policy at Wakehurst Place.

Wakehurst. The *Rhododendron* series collection continues to grow. Several of the dwarf *Rhododendron* series have been planted out or reorganised including the following: *Boothii*, *Lepidotum*, *Campylogynum*, *Saluenense*, *Uniflorum* and most important the *Lapponicum* series. Three large new borders are at present being cultivated on the western edge of the Heath Garden and these will eventually accommodate the *Scabrifolium*, *Trichocladum*, *Micranthum*, and *Glaucophyllum* series plantings supplemented by a variety of Heathland Plants and miscellaneous Australasian species in order to continue the already unique theme of the adjoining borders, planted by Gerald Loder.

Seedlings from three of the biggest specimens of *Sequoiadendron giganteum*, the Big Tree, were recently acquired, via Alan Mitchell of the Forestry Commission, for Wakehurst. The trees are named "Grizzly Giant," "General Grant" and "General Sherman".

There is now a total of 2,160 items in the seed bank and the emphasis continues to be on selections of high scientific value. The seed bank is due to be transferred to Wakehurst Place where it will be enlarged into a new department under Dr. Peter Thompson.

In July the Decorative Staff, supervised by Anthony P. Harvey, Supervisor, staged a floral exhibit at the Royal Society which used endangered plants as a centre-piece. The plants were from the Temperate Department and included *Protea grandiceps*, *Tecomnanthe speciosa*, *Lotus bertholletii*, *Xeronema callistemon*, *Apolonias barbujana* and *Elingamita johnsonii*. All the species are listed in the Red Data Book.

The Decorative Section as in previous years, provided the wreath laid by the Foreign Secretary, Sir Alec Douglas-Home, for the Dependent Territories on Remembrance Sunday, 11th November, 1973. The wreath was made up of live material of 21 different plants, each native to one territory and included material from *Juniperus bermudiana*, *Cocos nucifera*, *Anthurium acaule*, *Citrus* species and six orchids.

How did Kew play its part in the "Plant a Tree in 1973" national campaign? Tree planting has been undertaken each winter at Kew for many, many years but we did make a special effort—in all fifty-three young specimens were planted. Emphasis was of course placed upon the need to plant up "natural source" material (raised from seed and collected in the wild and therefore likely to be true to type), which had complete records of collecting data, etc. However, a number of other interesting trees were included, e.g. *Aesculus* + *dallimorei*—thought to be a graft hybrid (see "new Bean", p. 253), and *Platanus orientalis*—collected on the Isle of Cos from the tree which Hippocrates was by legend supposed to have been taught under.

A very full tree planting programme was carried out at Wakehurst. Some account of this appeared in the *Mid-Sussex Times* (published 1st March, 1973), in an article headed "Plant Tree in 73". A photograph of a tree-planting ceremony at Wakehurst was included with the caption—"Planting a tree to grow up with their generation". It showed Stephen Schilling, aged 6 (son of Tony Schilling, Assistant Curator), and Simon Smith, aged 5, helping Percy Jenner, Special Gardener, to plant an Oak Tree. In all two hundred and twenty-seven trees were planted at Wakehurst.

The water supply at Kew is now under the direct authority of the Metropolitan Water Board and the river water taken from the Richmond Park reservoir has been replaced by treated water from the Petersham Pumping Station.

The replacement of the river water has caused many cultural problems. The pH of the large tank in No. 10 (for *Victoria amazonica*) climbed to pH9 soon after conversion and compost in the Melon Yard glasshouses recorded a pH of over 8. The damage was considerable: for example, the waterlilies in House 15 refused to grow properly. Fortunately we have had experience of deionisation equipment and it is hoped that the newly evolved mixer rainwater deionised water systems will eventually be installed throughout the glasshouses at Kew (See p. 250).

The famous garden on the chalk at Highdown, which was owned by the late Col. Sir Frederick Stern, is now administered by Worthing Corporation. A panel, of which G. E. Brown (Arboretum) is a member, representing Kew, meets at Highdown to advise on policy generally. Over the years Sir Frederick contributed to most of the plant hunting expeditions. A recent survey of the records has disclosed that 560 seed items with collectors' numbers have at some time been grown in these gardens. An attempt is now being made to analyse the present collection, endeavouring to obtain material of at least some of these items. Already in addition to many *Galanthus* spp., *Mahonia entriphylla* var. *saxatilis* (EKB 4618) has been found and is being propagated for Kew.

The few remaining original trees in the "oldest" part of Kew—the Botanic Garden formed by Princess Augusta, have been labelled in black and gold, together with their probable planting dates.

Four hundred delegates from the 4th World Parks Congress visited Kew in two parties on the 24th and 25th May. The delegates were received officially in the Lower Nursery which was open for display as on Open Day. Tours of the Gardens were arranged with the third year diploma students as guides.

An International Meeting on the Use of Electronic Data-Processing Methods in Major European Collections, sponsored by Nato took place at Kew from 3rd to 6th October. Between 60 and 70 delegates representing a wide range of institutions in Britain and Europe attended. The main objectives were to discuss the scope of EDP use and to make recommendations for future policy in Europe so that information so stored would be internationally available and not beset by incompatibility problems due to differing computers or programmes.

The International Plant Propagators' Society on conference in this country visited Kew on the evening of Sunday, 19th August. In addition to attending a speech by the Director the members inspected the Lower Nursery, using the "guided tour leaflets" which were available to Open Day visitors.



Stocks of the 1974 Kew Calendar were completely sold out by December. It is a great tribute to the designer and printers (Curwen Press) that the calendar was one of three which were selected by the Design Centre of London.

The calendar re-used plates from *Curtis's Botanical Magazine* drawn by Miss Margaret Stones. Thanks to the sales of the calendar and of individual Botanical Magazine Prints, the financial position of this invaluable publication is greatly improved.

Delegates to the Congress of the International Organisation for Succulents Plant Study (I.O.S.) which took place at Reading, visited Kew on the 5th September. They toured the Herbarium and Library, and an exhibit in their honour was put up by Mr. D. R. Hunt.

"Open Day" was held on 11th and 12th May; for the first time it was a two-day event. To quote from the account in *Newsletter*, May 1973—"By 11 a.m. on Friday we had had 1,300 visitors through reception and by 12 o'clock we had as many through as the previous year's total of 2,260, and by the end of the day a record total of 3,039". On Saturday the total was 1,491.

A telephone call from Buckingham Palace on the 13th July enabled Kew to play a small part in the Royal Wedding. In answer to a request for orange blossom a suitable piece was cut and collected by special messenger from the Palace.

The famous Decimus Burton Gates by Kew Green (Main Gates) were taken down and restored during the year. A start was also made on the Victoria Gate and over the next few years all the ornamental gates are to be taken down and refurbished.

A comparative Polynology Section (Pollen Study) was set up in June 1973. It is working in close contact with the living collections.

A large carp was found floating dead on the Palm House Pond on the 28th December. It weighed 18lbs. and was 29½ inches long.

The Kew Diploma, based on the 3-year course, is accepted by an even wider range of authorities and a recent development concerns the N.D.H. qualification. The award of the Diplomas at Credit Level provides exemption from the written section of the Intermediate N.D.H. Also a Certificate of Attendance is awarded to Voluntary Students who have completed an adequate period of study and work at Kew and to Diploma Course Students who may have failed the theoretical part of their courses or have been forced to leave the Course prematurely.

The practical work periods for the Students have been re-arranged, and the carefully arranged programme consists of three six-monthly and three three-monthly periods. The departments in which they work are selected to give each student a good all-round experience.

Plant recording and labelling are now undertaken by the Technical Services Unit, the work being carried out by Record Assistants under an Assistant Scientific Officer. The plant record cards, which are standardised and used throughout the Gardens, now total 80,000.

Educational labelling is also part of the work of this unit and two coloured panels, each four feet square, for the Orchid Show House are already in position. The plans for the new collection of the shrubby Oleaceae near the Rose Garden, which have already been partly implemented, were produced by this section.

#### THE USE OF WATER TREATMENT AT KEW AS AN AID TO THE CULTIVATION OF GLASSHOUSE PLANTS

The water requirements for the vast range of tropical (and warm temperate) plants grown under glass at Kew, including particularly the obligate calcifuges such as various orchids, carnivorous and Ericaceous plants, have in the past been provided by rainwater collected from the glasshouse roofs and held in underground storage tanks. Though this rarely provided all of the water needed throughout the year, it did in the past provide most of the water required for hand watering and syringing in all but drought conditions. The Temperate House at Kew for example, has six separate 18,500 gallon underground tanks interconnected by a balancing line; these were an important source of supply, although they never provided a sufficient amount of water for the summer months.

The now familiar requirement for labour saving in glasshouse maintenance has led to considerable automation, and the supply from the rainwater tanks beneath the glasshouses at Kew is now pumped electrically to feed irrigation spray lines, capillary benches and mist propagation units. This has increased the consumption rate and contributed further to the deficit.

Formerly at Kew there was always the river water supply to fall back on. An independent reservoir high up in Richmond Park fed the Garden through two 8 inch mains, the water being drawn from the River Thames beyond possible tidal reach of salt water. However, recently the Metropolitan Water Board assumed responsibility for the provision of water, and it became policy to discontinue all unfiltered river water supplies. Hence Kew now receives the normal treated potable (drinking) water supply. This chlorinated water with a high pH (7.5) is lethal to the many calcifuge plants grown under glass, and to overcome this problem an alternative has been sought in the form of water treated locally.

Fortunately the industrial use of water treatment plants has expanded over the years and a range of high capacity treatment plants are now available, almost "off the shelf". There are several possible means by which water may be treated, and the choice

depends very much upon the minerals present in the raw water. For example the Botanic Gardens at Mieuse in Belgium have installed a very large plant for full water softening. This is necessary because of the presence of sodium salts in the raw water supply.

Full water treatment consists of passing the raw water through a cation exchange resin column and then through an anion column, the result being water of a similar quality to distilled water. If a more acidic water is required, a column containing a weakly basic anion resin can be used in series with the cation column to produce a pH of 4 to 4.5 in the treated water. Fully softened water has a direct use for experimental work, but it has been found unsuitable for continued use on a permanent plant collection because the roots of the plants fail to grow properly for some as yet not entirely understood reason. To overcome this problem Hamburg Botanic Garden, where a large plant was installed some ten years ago to provide water for the air conditioning units and watering systems within the new display complex, use a raw water blend to the extent of 10 per cent of the total volume of the treated water. Even with this provision at Mieuse they have found it difficult to grow satisfactorily the giant water-lily *Victoria amazonica* and have had to overcome this particular problem by having an independent water supply pumped from a lake within the Garden.

Not having the sodium problem we at Kew were able to consider and evaluate the more economic partial water treatment, using only the cation resin exchange column (dealkalisation). This produces an acidic water, since it is charged with carbon dioxide. An automatic or semi-automatic system is essential since the resins have to be periodically recharged (cation with acid, anion with alkali) and this is a difficult operation for the unskilled operator, as well as dangerous in the sense that corrosive substances need to be handled. The capacity of the treatment plants controlling the period between regeneration varies with the resin used, but is mainly affected by the substances present in the raw water input.

The opportunity to instal, and experiment with a unit at Kew came with the setting up of the new propagating facilities for the Decorative section which handles bedding and conservatory plants, since with this range of plants losses would not be irreplaceable. The unit was fitted to supply the water for both the capillary benches and the mist propagation sprays. It is a semi-automatic "starvation" ion exchange plant with a single column filled with zeo-karb 236 resin. Technically, to use the manufacturer's terms, this is a weak acid unifunctional cation exchange resin based on cross linked polyacrylic acid and containing carboxylic acid groups. It is supplied as moist white beads

in the hydrogen form. This particular resin is recommended for use in the de-ionisation of waters containing a high proportion of alkalinity. The unit is a large one and takes up ground area of about 4 square metres when all of the pipe work and tanks are connected. It has a capacity between regenerations of 18,700 gallons calculated against the condition of the raw water received at Kew. Regeneration, which converts the resin to the hydrogen form, takes 9.5 gallons of hydrochloric acid. The starvation process mainly exchanges calcium and magnesium ions from the raw water for hydrogen ions. Only temporary hardness caused by the carbonates is removed, permanent hardness caused by salts such as sulphates and nitrates is not affected since they pass unaffected through the resin. The treated water contains a low residual alkalinity (0 to 30ppm) plus free carbonic acid (i.e. a weak solution of carbon dioxide) equivalent to the alkalinity of the raw water. At Kew the raw water contains 200ppm of  $\text{CaCO}_3$  (chalk) so the treated water contains approximately that equivalent amount of carbon dioxide, as free carbonic acid, having a pH range of between 4.5 to 6.0. Raw water is then added to adjust the pH c 6.5, the value being monitored by fitting a direct reading pH meter into the line. Other complications in the installation of such a unit are that all service lines on the "down" side have to be of plastic (non-metal) otherwise corrosion occurs, and that a break tank is essential since this equipment cannot be connected directly to the mains. Also a special drain is required to guard against a failure in regeneration allowing acid to enter the drainage system. The plant described has now been in operation for two years and has proved its effectiveness with a wide range of plants. The only unsolved problem is the corrosion of the needle valves which control the capillary watering system on the glasshouse benches. The brass joints within the system can be lined with polyurethane, but a convenient replacement for the valve is still sought.

Where lesser quantities of water are required a smaller completely automatic unit becomes a more economic proposition. The dealkalisation unit already described is expected to provide the total glasshouse requirement for watering and mist propagation, including an overhead humidifier, but excluding the low level humidification spray lines. But, as already mentioned, the older glasshouses at Kew are already provided with rain water storage tanks, and in this context it is advantageous to consider running a mixed system using the rainwater as the primary supply system and the deionisation plant to top up the tanks during the dry months of the year. Under these circumstances the problems are minimal. The plant is compact and can easily be fitted within a corner of a potting shed. A smaller break-tank can be used, and with below ground tanks the break tank need not be raised

above floor level, an added convenience. The treated water can be fed direct to the rainwater tank, where it will mix with the residual rainwater. Although this eliminates the need for a raw water blend the latter may still be needed to increase the total amount of water available.

So in summary we now have the technical means to achieve the precise control of yet another sphere of the glasshouse environment.

J. B. SIMMONS, *Curator.*

Suppliers: Elga Products Ltd., Lane End, Bucks; Essex Water Treatment Ltd., Essex Works, Bryant Avenue, Gallows Corner, Romford, Essex; The Permutit Company Ltd., Pemberton House, 632/652 London Road, Isleworth, Middlesex.

There are also many other reputable suppliers.

#### THE FUEL CRISIS IN DECEMBER 1973

The second week of December will long be remembered by Kew Staff as a week of frantic activity, and cold and gloom, sufficient enough to dampen the festive feelings of approaching Christmas. For it was during this week that we were informed that fuel oil deliveries would be suspended until after the Bank Holiday and it was obvious that immediate measures would have to be taken to conserve every gallon of fuel so as to keep the glasshouses heated.

Permanently planted collections could not be moved so it was decided to use the houses containing these as a refuge for the material growing in pots elsewhere and to reduce the number of boilers in use. The houses which were to be heated were closed to the public and where possible "double glazed" with polythene. The task of acquiring polythene and fitting was carried out by a select band of both staff and students who soon acquired the technique and overcame many difficulties. Work continued well into the night so as to accomplish the task by Christmas Eve, which in the event was a remarkable achievement.

In many instances the heat had to be closed off from staff accommodation including parts of the Museums, Herbarium and Administration offices. It was a common sight to find colleagues muffled in scarves, coats and gloves working in a cold office, very willing to brave it out and understanding that the plant collections were of prime importance. So successful were the economies, that oil consumption was reduced by some 50 per cent, though it was distressing to see many of the glasshouses empty.

Immediate action to resolve the supply problem was taken at high level though it did not prove possible to get deliveries resumed immediately. The New Year saw the welcome sight of an occasional oil tanker on the horizon, but deliveries were very few and far between and there could be no lifting of heating restrictions. Con-

sultations followed with the oil company concerned and we were informed that if we would take delivery in bulk by juggernaut tankers the oil would be forthcoming. Apparently a shortage of small tankers was the root cause of the problem—they were required for deliveries to hospitals, old people's homes, etc., who had a higher priority. Arrangements were made to have oil pipe lines extended so that delivery could be made from the main roads to the Shaft Yard and Lower Nursery and the oil company undertook to deliver in bulk loads of 4,900 gallons which of course still leaves Kew the problem of redistributing the oil internally to the smaller boiler houses. At the time of writing the situation is easing but we are faced with the prospect of an uneasy time until heating can be reduced with the onset of spring.

Measures to ensure that the problem is not repeated next year are being considered, but obviously practical thought must be given to Kew's dependence on oil for a heat source. With the unselfish co-operation of all the Kew staff including the local D.O.E. Depot, little plant material has been lost or damaged though the bedding schemes may look a little thin during the summer. This has been a unique experience in the history of Kew and the older Kewites (I'm among them) will remember the old stoked coke system which had many faults, but I don't think it ever caused such drastic measures to be taken.

R. I. BEYER, *Deputy Curator.*

#### SENIOR HERBARIUM AND LIBRARY STAFF AND THEIR WORK, 1973

Members of the Herbarium staff formerly had responsibility for the collections within certain geographical areas, but in recent years a switch has been made to a systematic division. This means that botanists have responsibility for a group of families (in the Bentham and Hooker system) throughout their geographical range. There are also some specialist units and responsibilities as shown in the list below.

<b>HERBARIUM</b>		
Keeper ... ..	...	J. P. M. Brennan, M.A., B.Sc., F.L.S., F.I.Biol.
Deputy Keeper ... ..	...	P. S. Green, B.Sc., F.L.S.
1 Ranunculaceae to Elaeocarpaceae ... ..	...	R. D. Meikle, B.A., LL.B., F.L.S. G. Ll. Lucas, B.Sc., F.L.S. Miss J. K. Bowden, B.Sc., F.L.S. C. Grey-Wilson, B.Sc.(Hor.)
2 Linaceae to Leguminosae	...	L. L. Forman, B.Sc., F.L.S. R. M. Polhill, B.A., Ph.D., F.L.S. M. J. S. Sands, B.Sc.
3 Rosaceae to Rubiaceae ...	...	B. Verdcourt, B.Sc., Ph.D., F.L.S. G. E. Wickens, B.Sc., M.Sc., Ph.D., F.L.S. Mrs. D. M. Bridson
4 Valerianaceae to Salvadoraceae ... ..	...	C. Jeffrey, B.A. Miss P. Halliday
5 Apocynaceae to Selaginaceae ... ..	...	F. N. Hepper, B.Sc., M.I.Biol., F.L.S. R. K. Brummit, B.Sc., Ph.D., F.L.S. D. V. Field, B.Sc., M.Phil., F.L.S.
6 Verbenaceae to Ceratophyllaceae ... ..	...	R. M. Harley, M.A., D.Phil., F.L.S. A. Radcliffe-Smith, B.Sc. C. C. Townsend D. Philcox, M.I.Biol., M.Sc., F.L.S.
7 Orchidaceae ... ..	...	P. G. Taylor, F.L.S.
8 Hydrocharitaceae to Rapateaceae ... ..	...	W. Marais, B.Sc., M.Sc. B. F. Mathew, F.L.S.
9 Flagellariaceae to Cyperaceae ... ..	...	Miss S. S. Hooper, B.Sc., F.L.S.
10 Graminaea ... ..	...	W. D. Clayton, B.Sc., Ph.D., A.R.C.S., F.L.S. S. A. Renvoize, B.Sc.
11 Pteridophyta ... ..	...	Miss F. M. Jarrett, M.A., Ph.D., F.L.S.
12 Fungi ... ..	...	R. W. G. Dennis, B.Sc., Ph.D. D. A. Reid, B.Sc., Ph.D. D. M. Dring, B.Sc., Ph.D., F.L.S. D. N. Pegler, B.Sc., M.Sc., F.L.S.
13 Cultivated plants and Gymnosperms ... ..	...	D. R. Hunt, M.A. Miss V. Carder
Palynology Unit ... ..	...	I. K. Ferguson, B.A., Ph.D., F.L.S.
Index Kewensis ... ..	...	Mrs. J. L. M. Pinner Miss T. A. Bence
General Services Unit ...	...	Miss I. Blewett
Senior Photographer ...	...	R. R. Zabeau
Kew Bulletin ... ..	...	Miss V. Mann
Liaison Officers ... ..	...	Australia—Miss H. Aston, B.Sc. South Africa—J. H. Ross, B.Sc., M.Sc., Ph.D., F.L.S. India—G. Panigrahi, M.Sc., Ph.D., F.B.S.
<b>LIBRARY</b>		
Acting Chief Librarian ...	...	D. V. Wilson, F.L.A.
Librarians ... ..	...	Mrs. S. McMillan, B.A., A.L.A. Miss K. E. W. Rattue, A.L.A. Miss G. M. Grainger, A.L.A. Miss C. M. K. Pope, B.A., A.L.A.

## IN MEMORIAM

## KENNETH McCREADIE

It is with deep regret that we report the death of Mr. Kenneth McCreadie, N.D.H., who for nineteen years was Chief Parks Officer to the County Borough of Southend-on-Sea until his retirement in October 1970.

Mr. McCreadie started his horticultural career in a commercial glasshouse nursery in North Wales, followed by 2½ years at Penrhyn Castle, Bangor, North Wales, under James Kneller, head gardener to Lord Penrhyn. He continued his training by obtaining a position in the gardens of Aldenham House, Elstree, under Mr. Edwin Beckett, V.M.H., head gardener. Upon completing his studentship at the Royal Botanic Gardens, Kew, in 1929 he obtained his first municipal appointment with the City of Manchester Parks Department, remaining there for seven years. In 1936, he was appointed Deputy Superintendent of Parks and Cemeteries in Bournemouth, where he gained valuable experience in seaside gardening, but the advent of the war resulted in a change of emphasis from ornamental gardening to food production. Shortly after the war he moved to Hove as Parks Superintendent where he was actively engaged in winding up the food production in the parks and nursery glasshouses and returning them to normal peacetime uses. This work continued on his move to Torquay, where he undertook considerable plantings of magnolias, rhododendrons and camellias and a wide range of reputedly tender trees and shrubs, particularly at Cockington.

The redevelopment of the parks and recreational areas of Southend during the post-war years to their former glory, was a major task which, under his guidance, the staff of the Department carried out with all credit. At the same time, as with many other urban areas, the Borough was expanding rapidly and the Department was involved in the major development of parks and recreation areas, school playing fields, housing open spaces and highway verges.

His great love was horticulture with a wide and extensive knowledge of plants; on behalf of the Corporation, he exhibited groups at the Chelsea Flower Show for a number of years. In 1960, he organised a Spring Flower Show in Southend, which became an annual event and is now known as the "Festival of Flowers", the thirteenth of which was held in May of this year and attracted approximately 25,000 visitors during the nine days.

Because of his enthusiasm, he was a regular visitor to the local horticultural societies' shows and meetings, and for a number of years was a member of the Royal Horticultural Society's Floral



“A” Committee. He was a founder member and past Chairman of the Western Branch of the Institute of Park and Recreation Administration and in 1967/68 was Vice-President of the Institute of Parks Recreation Administration. He was also a member of the Horticultural Education Association and an Assessor for the O.N.D. Course in Horticulture at the Institute of Agriculture.

Among the mourners who attended the service at the Southend Crematorium on Friday, 15th June, 1973, were Civic Dignitaries and Officers from the County Borough. The Institute of Park and Recreation Administration was represented by Mr. J. W. Anderson, Immediate Past Vice-President and the Vice-Chairman and member of the Eastern Branch. Because of “Mac’s” wide interests and involvement in numerous local organisations, many were represented by associates and friends.

To his wife and family we extend our deepest sympathy on their untimely loss after such a short period of retirement.

Kindly sent by L. Page, Parks Officer, County Borough of Southend-on-Sea.

#### JONATHAN EDWARD CAVE

It is with great regret that we record the death of this grand old Kewite early in 1973. He was aged 94. Cave was at Kew from 8th January 1900 to 11th April 1903, serving in the Tropical and Arboretum Departments. At Kew he received a certificate for a dried collection of British Plants.

He left to take the post of Head Gardener to the late Miss A. Sheen of “Crix”, Binfield. Later he ran part of this estate as a market garden until his retirement.



(Cave’s brother, the late George Cave, was Curator of the Botanic Gardens at Darjeeling.) We send our sincere sympathies to his wife who is 93 and to his daughter, Mrs. Grace Hill.

## JAMES HENRY LOCK

It is a sad duty to report to our membership that James Lock died on the 18th March, 1973, at the Newbury District Hospital, Berkshire.

James was born on 15th May, 1904, his father being in private employment as head gardener. On several occasions he exhibited flowers and fruit in the R.H.S. Shows at Westminster. James was educated at Woolton Hill Church School and at Newbury Grammar School.



From March 1919 to September 1921 he was employed at the Castle Gardens, Highclere, Newbury, belonging to the Earl of Carnarvon, the Head Gardener being the late A. W. Blake. Here he worked in the pleasure grounds which covered 35 acres. His next move in the following months was to Hampshire County Council Farm Institute, Sparsholt, near Winchester where he held a studentship until March 1922. This was followed by three years at the Royal Horticultural Society's Gardens at Wisley where he was employed in the Fruit and Glass Department. It was here that he took and passed the General Examination for the R.H.S. Certificate. With an excellent testimonial from the late Fred. J. Chittenden, who was the Director at Wisley, James entered Kew as a student gardener on the 14th September, 1925. He left Kew on the 7th October 1927 with an excellent certificate, signed by the Curator, the late W. J. Bean and countersigned by the Director, the late Sir Arthur Hill. It reads—"During this period he applied himself diligently in learning and discharging his duties, and gave complete satisfaction to those under whose supervision he worked. He also proved himself to be an excellent cultivator, intelligent, industrious, punctual and careful in carrying out the work for which he was responsible." At Kew his services as a cricket umpire were always appreciated.

James left Kew and joined the Parks Department, City of Manchester as a gardener at Heaton Park and later at Alexander Park. Early in 1930 he was promoted to Foreman at Boggart

Hole Clough (190 acres) and was later transferred to take over the Platto Field Park (90 acres). In November 1935 he left the Parks Department and served another three years with the Northenden Social Club. In 1948 James returned to live in Woolton Hill to care for his widower father who was then blind.

We express our sincere sympathies to his brother, Mr. J. J. Lock.

### TOM LOMAS

It is with great regret that we report the death of Tom Lomas, for many years the Parks Superintendent of Carshalton, Surrey. He died suddenly on Tuesday 27th February, while on a visit to Manchester, his home town. The funeral service and cremation took place there on Monday, 5th March, 1973. Many old friends and colleagues attended to pay tribute to his sterling worth and character.

Tom commenced his horticultural career as an apprentice in Manchester Parks Department in 1922 under the late Mr. W. W. Pettigrew. He then spent two years as a Student Gardener at the John Innes Horticultural Institution from 1927 to 1929, moving on to the Royal Botanic Gardens, Kew, as a Student Gardener from 1929 to 1931.

In autumn 1931 he was appointed Foreman in the Parks Department, Gateshead, under Mr. P. W. H. Conn, where he stayed until 1934. He recounted some moving stories about the unemployed and the relief schemes carried out while he was working there.

Tom was then appointed Superintendent of Parks to the City of Guildford in May, 1934, and in May 1937 moved on to Carshalton, Surrey, as Parks Superintendent. Here he stayed until the Urban District Council ceased in March, 1965 and he was appointed Deputy Parks Superintendent to the London Borough of Sutton, which embraced Sutton and Cheam, Carshalton and Beddington and Wallington. He gave noble assistance with the reorganisation of the London Borough, helping to weld three staffs and three systems into one organisation.

Retirement came in October, 1969, amid many expressions of gratitude and good wishes. Tom and his wife continued to live in Carshalton and he leaves behind Mrs. Lomas, a son and a married daughter. In this Tree Planting Year, some trees are to be planted in his memory in Carshalton Park, the scene of many a Show which was organised by Tom in September each year from 1946 to 1969.

C. E. CHERRY.

### MISS S. W. BISHOP

Another connection with the Kew of World War 1 was lost when Miss Bishop died early August, aged 90. The daughter of a Customs and Excise Officer, she spent much of her early life at York, a city for which she retained a great affection. Her nursing career commenced in Islington and during the 1914-18 War she worked as a Lady Gardener at Kew. Her love of flowers, shrubs and trees grew into a very deep interest, which she maintained for the remainder of her life.

During the late 1920's Miss Bishop moved to Montacute where she was a founder member of the Women's Institute and lectured in many parts of Somerset on gardening, rug-making, archaeology and hat making. Her kindly nature, allied to sturdy commonsense and a quick wit made her very popular. She was also a very competent judge, and with her usual thoroughness attended a course for this at Cannington when over 76 years of age, and she was awarded the highest marks.

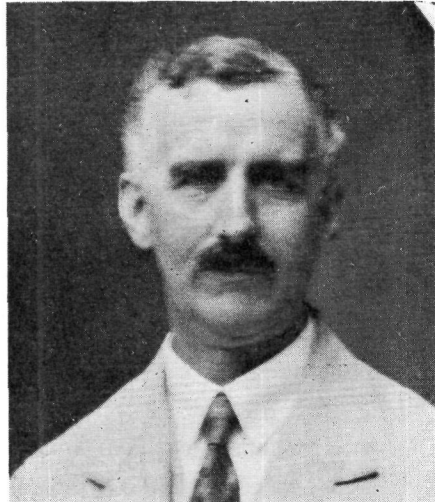
Miss E. M. Weekes, a cousin with whom she had been living, sent us a very nice set of coloured photographs of Miss Bishop sitting in her treasured garden with her two loved dogs, Punch and Toby. In the words of Miss Weekes—"Strange to say she carried the *Kew Guild Journal* round with her and a copy was on her bed when she died."

Our sincere sympathies go out to Miss Weekes.

### P. T. RUSSELL

With the passing of P. T. Russell one more link has been lost with the days when trained men from Kew went far and wide to grow the world's tropical economic crops. He left Kew in 1906. After working in a Cinchona plantation at Mungpoo he was later made superintendent, retiring about 1935.

He passed away on 7th May 1973 at the age of 89. We send our sincere sympathies to his nephew Mr. W. Ward.



## COLIN E. T. SHEPHERD

It was with shock that we learnt that Colin Shepherd had passed away as the result of a coronary on the 3rd August, 1973.

Colin left Kew after his studentship in 1955 and sailed for South Africa where he was Horticultural Assistant in Johannesburg Parks Department. He left in 1957 for Kitme, Zambia, where he was Horticulturist, later in 1961 being promoted to Deputy Parks Superintendent. Colin moved to Livingstone, Zambia, as Superintendent of Parks.



During 1966 Colin returned to England to become Gardens Manager of Cadbury Bros. Birmingham, a post which he held for three years before taking the post of Chief Superintendent of Parks under Coventry Corporation in 1970. He was promoted to Principal Assistant during 1973.

During 1955 Colin was married to Dorana, a preparer in the Herbarium, who wrote—"We have two boys, William and John, born in 1969 and 1970, who were such a thrill for Colin coming after 15 years of marriage."

We send our sincere sympathies.

## CHARLES EDWARD WILLIAM SHAMBROOK

We regret the death of C. E. W. Shambrook which occurred in late April 1973 at the County Hospital after a short illness. Charles left Kew in 1928 and for a time was at the John Innes Horticultural Institute, Merton, before joining the Parks Dept. of Bermondsey Borough Council. A period as Superintendent of Gravesend Parks Department followed.

Charles joined Lincoln Corporation in May, 1936 as Parks Superintendent. He was the first to hold the post and the department as such had limited scope. To use a phrase from a local newspaper, *The Echo*—"Mr. Shambrook arrived in Lincoln in the full knowledge that his enthusiasm and experience were his only positive assets."

Without an office and with a staff of 30, Charles directed the department from a small room at his home, the Arboretum Lodge, Monks Road. The department produced a maximum of 10,000 bedding plants annually, but when he retired in 1967 the number had increased tenfold, he had a staff of 100, with a tremendous amount of equipment. Although Mr. Shambrook retired in June 1967, he carried on in a part time capacity for another six months until a replacement was found.

Apart from horticulture one of his main interests was tropical fish and at one time he had over 40 aquaria with approximately 2,000 fish. He was also keen on philately and had a collection of more than 50,000 stamps, principally British and Colonial.

To quote from a letter received from Mrs. M. Shambrook—"I first knew him when he was a student at the John Innes Institute. After leaving Kew he married my sister-in-law thereby becoming my brother-in-law. Some years after the death of his wife and my husband, we were married. One of my great pleasures was his little gem of a garden and visits to parks and nurseries he had brought into being."

We offer our very sincere sympathies to Mrs. Shambrook.

#### MEMORIAL PLANTING TO THE LATE SYDNEY PEARCE

The following extract is from the *Wiltshire Times and News* dated 10th August 1973.

"A Tulip Tree given by Devizes Gardening Club was dedicated to the memory of Mr. Sydney Pearce, former Assistant Curator of Kew Gardens, at Hillworth Park, Devizes, on Monday night last week.

An inscribed plaque was unveiled by his widow, Mrs. Gwen Pearce.

Mr. Pearce, who moved to Rowde on his retirement several years ago, would have been the Club's President this year but for his sudden death. The Chairman, Mr. Norman Rose, said it was fitting his life should be commemorated by a tree, for he was a man who gave much of his life to their study.

The President, Mr. Leonard Painter, said it was also appropriate that it should be a living thing that would give joy to generations to come. Mr. Fred Kirby received the tree on behalf of the Mayor, Mrs. Pat Rogg and Corporation.

The eight-foot tree will stand in the shadow of the Park's brick gazebo and will flower for the first time in about 15 years."

A photograph taken by the tree after the unveiling ceremony is now in the Guild's Records collection. This and the details were kindly sent by Mrs. F. G. Child, Hon. Secretary of the Devizes and District Gardening Club, who we thank for this kindness.

In a letter afterwards Mrs. Pearce wrote—"To me it seems appropriate that it is a *Liriodendron tulipifera* as it is a reminder of that lovely tree we could see just across the path at Lion Gate."

**RULES—continued from page 203**

*Annual Subscriptions.*

- (7) The Annual Subscription which shall be payable on January 1st of each year shall be such a sum as the Annual General Meeting shall from time to time determine and shall entitle members to all publications of the Guild. A member whose subscription is one year in arrears shall not receive further publications until his arrears be fully paid. The annual subscription is at present £1. (Student Gardeners 50p.)
- (8) Any member whose subscriptions are fully paid may on the payment of a lump sum predetermined by the Annual General Meeting become a Life Member and be entitled to all the privileges of the Guild without further payment. A sum representing not less than one-half of each life subscription shall be invested in the name of the Trustees and the liabilities to Life Subscribers shall be clearly shown in the annual Statement of Accounts. The provisions of this Rule may be suspended by resolution of an Annual General Meeting for such period as the Annual General Meeting shall think fit. (This rule is at present suspended.)

*Management of the Guild.*

- (9) (a) The business of the Guild shall be conducted by a Committee composed of the officers and ordinary Committee members. The officers shall consist of the President, two Vice-Presidents, the immediate Past-President, the President-Elect, Honorary Secretary, Honorary Assistant Secretary, Honorary Treasurer, and Honorary Editor. The ordinary Committee members shall consist of four present Kewites, twelve Old Kewites and two Student Gardeners.
- (b) Nine members of the Committee shall form a quorum. The Committee shall meet from time to time as may be necessary. Nine members of the Committee may by signed written notice to the Honorary Secretary request him to call a meeting of the Committee and if such meeting be not called within thirty days of the despatch of such notice the said nine members may themselves call a meeting of the Committee by twenty-one days' notice in writing sent to all members thereof.
- (c) The Committee may regulate its own proceedings by standing order or otherwise as it may think fit. No act or proceedings of the Committee shall be invalidated by any vacancy on the Committee or any sub-committee thereof on the grounds that a member of the Committee or of a sub-committee thereof was not qualified at or had become disqualified after the date of his appointment. The Chairman of the Committee shall at Committee meetings have no second or casting vote in the case of an equality of votes.
- (d) At least seven days' written notice of a meeting of the Committee shall so far as practicable be given to every officer and other members of the Committee.
- (e) A Chairman of the Committee shall be elected by the Committee to take the Chair in the absence of the President, the immediate Past-President, the President-Elect and Vice-Presidents.
- (f) There shall be two Honorary Auditors chosen from among members of the Guild who are not members of the Committee.

*Election of Officers, Committee, and Auditors.*

- (10) (a) The President, the President-Elect, Honorary Secretary, Honorary Assistant Secretary, Honorary Treasurer, and Honorary Editor shall be elected annually at the Annual General Meeting. One Vice-President shall be elected annually at the Annual General Meeting and shall hold office for two years. Any vacancy among

the officers shall be filled as soon as possible by co-option by the Committee, and any person so co-opted shall hold office until the conclusion of the following Annual General Meeting.

- (b) Four ordinary Committee Members (three of whom shall be Old Kewites) shall be elected each year and shall hold office for four years. They shall not be eligible for re-election for at least twelve months after the end of their term of office. Any casual vacancy on the Committee shall be filled at the next Annual General Meeting, the member elected completing the term of office of the member whom he has replaced. The Student Gardener representatives shall be elected annually by the Student Gardeners.
- (c) One Honorary Auditor shall be elected each year and shall hold office for two years.
- (d) Candidates for election as officers or ordinary Committee members or Auditors may be proposed by any member of the Guild provided that the names of candidates be sent in writing to the Honorary Secretary at least twenty-eight clear days before the Annual General Meeting.

#### *Meetings.*

- (11) The Annual General Meeting shall be held at Kew on either the second or third Saturday in September. At the Annual General Meeting the Report of the Committee and a Statement of the Accounts shall be submitted and election of officers and Committee members and Auditors shall take place. Fourteen clear days before the Annual General Meeting the Honorary Secretary shall circulate to all members with an address in the United Kingdom a financial statement together with the agenda of the meeting which shall include a list of candidates for election as officers or ordinary Committee members or Auditors together with their proposers.
- (12) A Special General Meeting of the Guild may be called at any time by the Committee and shall be so called within fifty-six days of receipt by the Honorary Secretary of a requisition in writing signed by not less than thirty-five members stating the purpose for which such a meeting is desired and setting out any resolution which it is desired to propose thereat. Notice of the meeting with an agenda thereof shall be sent to all members with an address in the United Kingdom at least forty-two days before the date appointed for the meeting. Amendments to any resolutions set out in the agenda shall be sent to the Honorary Secretary at least twenty-eight clear days before the date of the meeting and shall be sent by him to all members with an address in the United Kingdom at least seven clear days before the date of the meeting. No business shall be transacted at such meeting other than that specified in the notice and no amendment of any substance to any resolution proposed at the meeting shall be allowed. The Chairman of the meeting shall be nominated by the Committee.
- (13) The accidental omission to give notice of a meeting to or the non-receipt of notice of a meeting by any member shall not invalidate any proceedings or resolutions at any meeting of the Guild or any Committee thereof.
- (14) At a General Meeting each individual member whose subscription is fully paid up to the date of the meeting shall have one vote and no more except the Chairman who shall have a second or casting vote in the case of an equality of votes.



*Alterations to the Rules.*

- (15) These rules may be altered by a two-thirds majority of those present and voting at an Annual or Special General Meeting. Any proposals for the alteration of Rules shall be sent to the Honorary Secretary in writing at least twenty-eight clear days before the date of the Annual or Special General Meeting and shall be sent by him to all members with an address in the United Kingdom at least seven clear days before the date of the Annual or Special General Meeting.

*Dissolution of the Guild.*

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

*Property of the Guild and Trustees.*

- (17) (a) The Guild may purchase or otherwise acquire and hold property of any nature and may sell lease mortgage or otherwise deal with the same. Any property belonging to the Guild may be invested in the names of not more than four and not less than two Trustees who may be appointed from time to time by the Committee and any vacancy amongst such Trustees shall be filled by the Committee. Such property may also be invested in the name of a limited company established by and under the control of the Guild for trust purposes.
- (b) Such investments may be in or upon such shares, stocks, funds, securities, investments, and property, real or personal, freehold or leasehold in any part of the world upon such terms and conditions (if any) as the Committee shall in their absolute discretion think fit and in all respects as if the Committee were the sole beneficial owners thereof. The Committee may from time to time direct the Trustees to sell vary and transfer such investments and property.
- (c) The Committee may deal with the said investments as if they were the sole beneficial owners thereof.
- (d) If legal proceedings of any kind are resorted to or defended by the Guild the Trustees shall on the instructions of the Committee but not otherwise prosecute or defend such proceedings either in the name of the Guild or in the name of the Trustees or otherwise on behalf of the Guild as may be necessary.
- (e) The Trustees shall in all respects act as required by the Committee and a copy of a minute of the Committee signed by the Honorary Secretary shall be conclusive evidence of its decision.
- (f) Any Trustee may be removed from office by a resolution passed at a meeting of the Committee by a vote of not less than three-quarters majority of the members of the Committee present and voting at the meeting. At least seven clear days' notice of a special meeting to remove a Trustee shall be given to all members of the Committee and the agenda for the meeting shall state

concisely the reasons why the removal is considered necessary and the accused Trustee shall be permitted to make his defence orally or in writing.

- (g) The Trustees shall be effectively indemnified by the Committee from and against any liability costs expenses and payments whatsoever which may be properly incurred or made by them in relation to the trusts of the property and investments of the Guild or in relation to any legal proceedings or which otherwise relate directly or indirectly to the performance of the functions of a Trustee of the Guild.
- (h) Except where otherwise provided the Trustees may act by a simple majority of those present and voting at a meeting of the Trustees.
- (i) The Trustees shall from among their number appoint an Honorary Secretary.

#### LIST OF OLD KEWITES WHOSE ADDRESSES ARE UNKNOWN

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

## KEW STAFF WHO ARE GUILD MEMBERS

(As at 1st January, 1974)

	<i>Entered Kew</i>
<b>DIRECTOR'S OFFICE</b>	
Director .....	Professor J. Heslop-Harrison, M.Sc., Ph.D., F.R.S., F.R.S.E., M.R.I.A., F.L.S., F.I.Biol. ... .. 1971
Deputy Director, Keeper of Herbarium (D.C.S.O.) .....	J. P. M. Brenan, M.A., B.Sc., F.L.S. 1948
Secretary (Principal) .....	R. W. King, D.F.C. ... .. 1959
Clerical Assistant .....	Miss E. H. Smith ... .. 1966
<b>HERBARIUM</b>	
Herbarium Deputy Keeper, S.P.S.O....	P. S. Green, B.Sc., F.L.S. ... .. 1966
Principal Scientific Officer.....	R. D. Meikle, B.A., LL.B., F.L.S. ... 1947
" " " .....	F. W. Hepper, B.Sc., M.I.Biol., F.L.S. 1950
" " " .....	Miss F. M. Jarrett, M.A., Ph.D., F.L.S. ... .. 1959
" " " .....	R. K. Brummitt, B.Sc., Ph.D., F.L.S. 1963
Senior Scientific Officer.....	D. R. Hunt, M.A., A.R.C.O. ... .. 1961
Higher Scientific Officer.....	D. V. Field, B.Sc., Ph.D., F.L.S. ... 1960
" " " .....	M. J. S. Sands, B.Sc. (Hons.) ... .. 1959
" " " .....	D. N. Pegler, B.Sc., M.Sc., F.L.S. ... 1960
Scientific Officer .....	Miss V. A. Carder ... .. 1955
" " " .....	J. L. Gilbert ... .. 1955
Botanist (Bentham-Moxon) .....	H. K. Airy Shaw, B.A. ... .. 1925
Scientific Officer (Bentham-Moxon)...	H. M. Burkhill, O.B.E., M.A., F.L.S. 1969
	Miss S. A. Forwood ... ..
<b>LIBRARY</b>	
Deputy Librarian .....	D. V. Wilson, F.L.A. ... .. 1970
<b>JODRELL LABORATORY</b>	
Keeper (Senior Principal Scientific Officer) .....	K. Jones, B.Sc., Ph.D., F.I.Biol., F.L.S. ... .. 1960
Principal Scientific Officer .....	D. F. Cutler, B.Sc., Ph.D., D.I.C., F.L.S. ... .. 1962
Senior Scientific Officer.....	Miss M. Y. Stant, B.Sc., Ph.D., F.L.S. 1950
" " " .....	F. R. Richardson ... .. 1934
Senior Photographer .....	T. A. Harwood, A.R.P.S. ... .. 1965
<b>MUSEUMS DEPARTMENT</b>	
Senior Scientific Officer.....	Miss R. C. R. Angel, B.Sc., Dip.Hort.Sc., F.L.S. ... .. 1958
<b>GARDENS</b>	
Curator .....	*J. B. Simmons, N.D.H. ... .. 1958
Deputy to Curator .....	*R. I. Beyer ... .. 1955
Assistant Curator .....	*G. E. Brown, N.D.H. (Arboretum)... 1946
" " .....	C. M. Erskine (Temperate) ... .. 1968
" " .....	D. W. H. Townsend, N.D.H. (Decorative) ... .. 1972
" " .....	*J. Warrington, N.D.H., F.L.S., A Inst.P.R.A. (Tropical) ... .. 1970

Supervisor of Studies .....	*L. Pemberton, N.D.H., Dip.Arb. ....	1952
Gardens Supervisor .....	*A. G. Cook (Alpine & Herbaceous)...	1948
" " .....	*M. J. Dawes (Technical Services) ...	1964
" " .....	*P. Everitt ... ..	1969
" " .....	*H. J. Fleigner (Alpine & Herbaceous)	1955
" " .....	*A. J. Hale (Tropical Pits ... ..	1955
" " .....	*A. Harvey (Decorative) ... ..	1968
" " .....	*S. J. Henchie (Temperate Pits) ...	1970
" " .....	*G. E. Nicholson (T. Range) ... ..	1947
" " .....	*G. A. Pattison (Alpine & Herbaceous	1946
" " .....	*R. H. Rule (Arboretum) ... ..	1956
" " .....	*F. J. Sadler (Arboretum) ... ..	1951
" " .....	*A. F. Titchmarsh ... ..	...
" " .....	*J. R. Woodhams (Ferneries) ... ..	1959
Acting Gardens Supervisor.....	R. Hughes ... ..	1970
Propagator .....	J. P. Cox ... ..	1971
Gardener (Grade 1).....	J. Blundell ... ..	...
" " .....	G. C. Dykes ... ..	1970
" " .....	D. Stokes ... ..	1970
Scientific Officer .....	J. Keesing, B.Sc. ... ..	1967

### STUDENT GARDENERS ON THE THREE-YEAR COURSE

(Commenced 27th September, 1971)

G. W. A. Chalmers	D. J. Hutchings	A. B. Marsland	L. Philibert
J. R. Craig	R. Ivison	D. R. Perham	T. Watt
J. A. Darbyshire	J. Lonsdale		

(Commenced 25th September, 1972)

M. G. Dick	R. P. Jones	K. F. R. Pearson	S. J. Robbins
Miss S. Fountain	B. Mowforth	J. G. Rickards	R. J. Wiseman
E. Hopper			

### WAKEHURST STAFF (Ardingly, Sussex)

(W behind the year indicates direct entry to Wakehurst)

Assistant Curator .....	*A. D. Schilling, N.D.Arb. ...	1959
Gardens Supervisor .....	P. J. Brazier ... ..	1965
Clerical Officer .....	C. H. Izard ... ..	1968W

## ADDRESS LIST OF OLD KEWITES (April 1974)

*(The names of Past Presidents are preceded by a dagger, Life Members by an asterisk and Active Members by a hyphen. The year of leaving Kew is indicated)*

ABBREVIATIONS: H.G., Head Gardener; F., Foreman; N., Nurseryman; M.G.,

Market Gardener; C., Curator; A.C., Assistant Curator; D., Director; A.D., Assistant Director; M., Manager; S., Superintendent; A.S., Assistant Superintendent; D.S., District Superintendent; H.L., Hort. Lecturer; A.O., Advisory Officer; B.G., Botanic Gardens; H.J., Horticultural Journalist.

- 1959 -Adams, R., 69 Selwyn Avenue, Richmond, Surrey.  
 1938 \*Addison, G. H., Lot 5, Owen Road, Darlington, W. Australia, 6070.  
 1957 -Addison, P., N.D.H., 6 Walney Road, West Derby, Liverpool, LI2 5EW.  
 1960 Adshhead, P., Hothley, Kingsgate Road, Winchester, Hants.  
 1926 -Agate, C. J., RTI Box 645, WIZ, FLA 33549, U.S.A.  
 1949 -Ainslie, E., 32 Bakewell Road, Hazel Grove, Stockport, Cheshire.  
 1939 \*Airey, J. E., Westmoor Gardens, Mansel Lacy, Hereford.  
 1945 \*Albert, Mrs. H. (Miss H. J. Stent), 65 Summet Street, Oyster Bay, Long Island, N.Y., U.S.A.  
 1930 -Alcock, R. M., 5 Upper Mount, Grayswood, Haslemere, Surrey.  
 1969 Alderson, M. J., 21 Blue Road, Tiptree, Colchester, Essex.  
 1962 -Aldous, J., 504 Grace Way, Almonds Spring, Stevenage, Herts.  
 1946 Allen, Miss B. (See Mrs. F. Christopher).  
 1948 Allen, F. H., Coombe Villa, Wootton-under-Edge, Glos.  
 1961 -Allen, J., 21 Shepherds Walk, Cove, Farnborough, Hants.  
 1930 Allison, B. W., D., Parks Dept., Salford, Lancs.  
 1956 -Alphonso, A. G., D., Botanic Gardens, Singapore.  
 1945 \*Ambrose, Miss R. M. (See Mrs. J. Souster).  
 1957 Amoah, G. K. A., Ministry of Works and Housing, P. & Gdns. Div., P.O. Box 43, Accra, Ghana.  
 1926 \*Anderson, A. W. C., N.D.H.(N.Z.), 224 Church Street West, Timaru, N.Z.  
 1965 -Anderson, G. H., B.E.M., 29 Glenwood, Harmans Water, Bracknell, Berks.  
 -Andoh, A., P.O. Box 967, Lusaka, Zambia.  
 1956 Andrews, B. R., Park Dept., City Hall, Edmonton, Alberta, Canada.  
 1947 Andrews, R. H., 67 Chiltern Avenue, High Wycombe, Bucks.  
 1968 -Annawetty, Miss L. (See Mrs. M. Nunov-Mensah).  
 1962 -Anwyl, R. B.  
 1954 -Appleby, J., 53 Rathbone Road, Liverpool, L15 4HG.  
 1964 -Armony, A., M.A., D., Parks D., The Municipality, 35 Bialik Street, Ramat Gan, Israel.  
 1947 \*Armstrong, C. E., N.D.H., H.L., Kesteven Farm Inst., Caythorpe Court, Nr. Grantham, Lincs.  
 1970 -Armstrong, G. D., Botanic Garden of Smith College, Northampton, Mass., 01060, U.S.A.  
 1931 \*Arnold, T. A., Box 90, Bedfordview, Transvaal, S.A.  
 1920 \*Ash, Mrs. W. (E. M. Harper), 22 Palace Court, Hampstead, N.W.3.  
 1944 \*Ashby, Mrs. D. (F. A. Sharps), Dip. Hort. (Reading), N.D.H., 145 High Street, Harston, Cambridge.  
 1956 -Ast, R., Huob, 6330 Cham/ZG., Switzerland.  
 1958 -Atkinson, Miss A. L. M. (See Mrs. Clemson), Agricultural Education Office, Bridge House, Bakewell, Derbs.  
 1954 -Attenburrow, D. T., c/o Fisons, Levington Research Inst., Ipswich, Suffolk.  
 1950 -Attwood, C. A., Atlas, East Lane End, Fairmoor, Morpeth, Northumberland.  
 1910 \*Aubrey, A. E., 83 Newbridge Street, Wolverhampton, Staffs.  
 1939 \*Aves, J. J., D.S., P.O. Box 1454, Parks Dept., Pretoria, S.A.  
 1972 -Axton, M. R., 41 Wilmot Way, Banstead, Surrey.  
 1968 -Baas, Dr. P., Rijks Herbarium, Schelpenkade, 6, Leiden, Netherlands.  
 1935 Bachelor, P. L., Glenchairn, Dover Ridge Avenue, Carlton, Nottingham.  
 1906 \*Badgery, R., 47 King's Ash Road, Paignton, Devon.  
 1920 \*Baker, E., The Myrtles, Bucknalls Lane, Garston, Herts.

- 1947 -Baker, M. E., 25 Springfield Road, Bury St. Edmunds, Suffolk.  
 1939 \*Balch, R. W., N.D.H.(N.Z.), East Taieri, R.D.2, Mosgiel, Otago, New Zealand.  
 1968 Balfour, A. H., 61 Mars Street, Kensington, Johannesburg, South Africa.  
 1961 -Ballard, F., B.Sc., A.R.P.S., 24 Grove Park Road, Chiswick, London, W.4.  
 1971 -Bamkole, C., Parks & Gardens Unit, Univ. of Ife, Ile-Ife, Nigeria.  
 1961 Banbury, J. N., 20 Oxford Street, Woodstock, Oxford.  
 1965 Barber, A., 26 Ash Hayes Drive, Nailsea, Somerset, BS19 2IG.  
 1962 -Baren, M. E., 99 Lightwood Hill, Smethwick.  
 1958 -Barker, L. P., 120 Victoria Road, Fulwood, Preston.  
 1923 \*Barker, W. H., N.D.H., M.C., Loxton, Behind Berry, Somerton, Somerset.  
 1966 -Barnes, A. L., 14 Goodwood Road, The Ridings, Royston, Herts.  
 1960 -Barnes, H. P., Supt., P.O. Box 42, Wigmore, Pennyhill Lane, West Bromwich.  
 1962 -Barnett, R. C. A., Landscape Architect, Kfar, Shmaryahu, Israel.  
 1963 -Barwani, M. R., 5 Natal Road, London, N.11.  
 1927 \*Bassett, W. E., M.B.E., 6 Ravenswood Road, Croydon, CRO 4BL.  
 1930 \*Bate, C., D.I.P.A.,  
 1932 Bates, W., The Gardens, Witanhurst, West Hill, Highgate, N.10.  
 1962 -Bauman, R. C., M.Sc., Box 3924, Wilmington, Delaware, U.S.A., 19807.  
 1954 -Baverstock, E., N.D.H., 1 The Cottage, Sidcup Place, Sidcup, Kent.  
 1956 -Bayliss, C., 236 Rochester Road, Gravesend, Kent.  
 1936 Beale, Mrs. S. E. (Hampton), Shelvingford, 37 London Road, Liphook, Hants.  
 1970 Beardsley, C., 50 Cresswell Road, East Twickenham, Middlesex.  
 1953 -Bee, R. A., N.D.H., F.L.S., M.B.I.M., F.Inst.P.R.A.(Dip.), N.D. Arbor, M.Inst. B.C.A., Dir. of Parks, Parks Dept., Cumberland House, Crown Square, Manchester, M60 3BB.  
 1919 Beer, A., University B.G., Innsbruck, Tyrol, Austria.  
 1942 \*Bell, Miss C. O. (See Mrs. C. O. Martin).  
 1963 Bell, H., 61 Evington, Tanhouse, Skelmersdale, Lancs.  
 1918 \*Bell, Miss V. S. (See Mrs. Danes).  
 1964 -Bentall, M., P.O. Box 984, East London, S.A.  
 1947 \*Benton, P. S. L., Hort. Supt., M.P.B.W. Buildings Branch Dept., Box 967, Lusaka, S.A.  
 1937 Berney, M. J., La Plaine, Geneva, Switzerland.  
 1967 -Bessler, W. E., Dip.L.D. (Newcastle), 41 Bell Rd., East Molesey, Surrey, KT8 0SS.  
 1967 -Beswick, J., A.I.L.A., "Southcott," Cartridge Lane, Grappenhall, Warrington, Lancs., WA4 4SA.  
 1952 Bett, J. R., The Vineries, Harby, Nr. Newark, Notts.  
 1957 Bewley, I. K. (See Mrs. S. D. Hitt).  
 1955 -Billett, M., 176 Downhall Road, Rayleigh, Essex.  
 1924 \*Binnington, R. S., 152 Bellemoor Road, Southampton.  
 1918 \*Bintner, Mrs. J. (Harper), D.I.C., N.D.H., 54 Rue de la Tourelle, Boulogne, Seine, France.  
 1940 -Bird, E., 25 Cannons Meadow, Tewin, Welwyn, Herts.  
 1946 Bird, Miss H. (See Mrs. G. Williams).  
 1933 Blackman, J. A. E., N.D.H., Plumpton Nurseries Ltd., Sussex.  
 1972 -Bletsoe, R. C., "Little Bays," Station Road, Harlow, Essex.  
 1945 -Blowers, J. W., A.H.R.H.S., Goodwood Estate Co. Ltd., Goodwood, Chichester, Sussex.  
 1946 Blowfield, A. H., S., 298 Limpsfield Road, Sanderstead, Surrey.  
 1974 -Blundell, K., 267 New Kings Road, London, S.W.6.  
 1951 -Boddington, H. P., D.I.P.A., 4 Arundel Avenue, Morden, Surrey.  
 1944 \*Bolton, Miss I. E. (See Mrs. I. E. Cranfield).  
 1936 Bonfiglioli, V., Via Trionfale, 175, Rome, Italy.  
 1924 Booker, A. J., 97 Quay Road, Bridlington, Yorks.  
 1956 Boot, W. A., Supt. of Parks, Box 23, Nigel, Transvaal, South Africa.  
 1938 -Boreman, A. E., S., 58 Ferndale Road, Ashford, Middlesex, TW15 3PP.  
 1948 Borrett, A. H. V., 31 Barton Road, Woodbridge, Suffolk, IP 121 Q5.  
 1947 Bourner, E., Garage Flat, Nuffield Lodge, Redhill, Surrey.  
 1948 -Borrett, A. H. V., 31 Barton Road, Woodbridge, Suffolk IP 121 Q5.  
 1966 -Bowen, R. D., A.Inst.P.A.(Dip.), Parks Office, Hampden Road, High Wycombe, Bucks.

- 1949 -Bowles, H. A., The Flat, Cross Park Nursery, Coach Road, Newton Abbot, Devon, TQ12 1EW.
- 1947 -Boyle, J. J., Parks Supt. House, Morrab Gardens, Penzance, Cornwall.
- 1970 -Boys, P. A., East Malling Research Station, Maidstone, Kent.
- 1925 \*Braid, K. W., O.B.E., M.A., B.Sc., Lochview, Skene, Aberdeen.
- 1943 Brakin-Smith, Mrs. E. B. (Miss E. P. King), 12 Thornborough Road, Coalville, Leics.
- 1953 Brasher, P. A. D., 24 Devon Avenue, Whitton, Middlesex.
- 1963 -Breach, D. J., Beaulieu Drive, Pinner, Middlesex.
- 1939 -Bridge, S., 437 North Street, Greenwich, Connecticut, 06832, U.S.A.
- 1964 Bridgeman, P. H., N.D.H., N.D.Arb., 21 Jubilee Drive, Ash Vale, Nr. Aldershot, Hants.
- 1962 -Bridgeman, P. T., N.D.H., 11 Lee's Heights, Charlbury, Oxon., OX7 3EZ.
- 1960 Briggs, Miss B. (See Mrs; Cole).
- 1961 -Briscoe, G. E. D., 52 Aireith Street, Roosevelt Park, Johannesburg, S.A.
- 1903 †\*Brooks, A. J., F.L.S., F.C.S., A.H.R.H.S., 3 Somerville House, Manor Fields, Putney, S.W.15.
- 1963 -Brooks, P. S., 45 Woodhall House, Welwyn Garden City, Herts.
- 1930 Brown, A. J., S., Parks and Cemeteries, The Lodge, Wigston Cemetery, Leics.
- 1950 Brown, D. A., F.Inst.P.A.(Dip.), N.Y. Bot. Gdn., Bronx Park, New York.
- 1903 \*Brown, E., "Chez Nous," Grove Road, Cranleigh, Surrey.
- 1943 \*Brown, G. B., "Grasscroft," 98 The Avenue, Gosport, Hants.
- 1959 Brown, J., 4 Bignor Street, Cheetham, Manchester, 8.
- 1926 Brown, Jas., S., 7 Rupert Drive, Newport, Mons., NPT 3HN.
- 1950 -Brown, L. R., Dept.P.S., 33 Parkland Grove, Ashford, Middlesex.
- 1946 -Brown, R. M. Stuart, F.Inst.P.A.(Dip.), 45 Windy Hill Lane, Marske, Redcar, Tees-side, TS11 7HR.
- 1928 \*Bruins-Lich, H., 231 Main Street, Waterkloof, Pretoria, Transvaal, Rep. of S.A.
- 1970 -Bruty, H., B.E.M., A.H.R.H.S., 23 Dagmar Road, Kingston, Surrey.
- 1938 -Buckley, A. R. T., A.C., Dept. of Ornamental Plant Research Inst., C.E.F., Ottawa, 3, Ontario.
- 1947 Buller, Miss A. G., c/o Mrs. Anne Wolfe, Iferm, Pontblyddyw, Nr. Mold, Flintshire.
- 1968 -Bullock, A. A., B.Sc., F.L.S., Highlands Cottage, Poughill, Nr. Crediton, Devon.
- 1945 \*Bundy, E. F., 62 Combemartin Road, Southfields, London, S.W.18.
- 1945 Bundy, Mrs. (Scott), ditto.
- 1921 Burfoot, C., H.G., Buckhurst Park, Withyam, Tunbridge Wells, Kent.
- 1972 -Burgess, A. G., Oak Ferns, Longstock Park, Stockbridge, Hampshire.
- 1964 Burlingham, Miss K. M. (See Mrs. Dodge).
- 1954 -Burras, J. K., N.D.H., Superintendent's Cottage, Botanic Garden, Rose Lane, Oxford.
- 1922 \*Burrell, Miss L. C. (See Mrs. S. T. Lees).
- 1951 \*Burt, B. L., B.Sc., F.L.S., Royal Botanic Gardens, Edinburgh.
- 1903 Burton, H., 317 Jefferson Road, West Palm Beach, Florida.
- 1949 -Bury, W., Parks Superintendent, Piel View, Public Park, Barrow-in-Furness, Lancashire.
- 1924 \*Buss, L., The Cree, Smarden, Ashford, Kent.
- 1921 \*Butcher, H. G., 11 Bridle Road, Epsom, Surrey, KT17 4EP.
- 1955 Butcher, I. A.
- 1922 Butler, P. J., Bedford College, Regents Park, N.W.1.
- 1919 \*Bysouth, Mrs. R. A. (Davies), Doctor Cooke Nursing Home, Box 1007, Lloydminster, Alberta, Canada.
- 1953 Cameron, J. D., Horticulturist, Parks Dept., East London, South Africa.
- 1912 \*Cannon, H. A., Uganda Coffee and Rubber Estates Ltd., Kampala, P.O. 53, Uganda.
- 1953 Carn, L., N.D.H., 6 Ixworth Road, Troston, Nr. Bury St. Edmunds, Suffolk.
- 1930 \*Carr, G. E., 51 August Avenue, Scarborough, Ontario M1L 3M8, Canada.
- 1947 Carr, O., 35 Park Terrace, Dunston-on-Tyne, Gateshead, 11, Co. Durham.
- 1971 -Carrick, J. I., Moon Crescent, Highbury, South Australia, 5089 Australia.

- 1953 Carson, S. A., 3 Drury Lane, Weston, Canada.  
 1959 -Carter, B., N.D.H., 46 Merlyn Road, Anchorsholme, Blackpool, Lancs. FY5 3AZ.  
 1953 Castree, F., 120 Nether Street, West Finchley, N.2.  
 1958 Catchpole, P. A., Glenwood, 284 Cowley Road, Uxbridge, Middlesex.  
 1970 -Catling, Miss D. M., 317 Hook Road, Epsom, Surrey.  
 1961 -Caton, Miss R. A., Hill Farm, Farnham, Nr. Bishops Stortford, Herts.  
 1929 \*Catt, G. A., 21 Felton Street, Amelia Heights, Balcatta, 6021, West Australia.  
 1923 \*Cavanagh, A. A., 5 Tehidy Road, Camborne, Cornwall.  
 1922 Chambers, Mrs. K. (Watson), Bines Common, Partridge Green, Horsham, Sussex.  
 1919 \*Chandler, P., 205 Reading Road, Wokingham, Berks.  
 Chandler, W., 9 Talbot Street, Hertford, Herts.  
 1939 -Chantler, E., 27 The Ridgeway, Fleetwood, FY7 8AH, Lancs.  
 1955 Chapman, J., c/o Dept. of Agriculture, Nairobi, Kenya.  
 1929 \*Cheek, A. J. W., 19 St. Luke's Road, Maidenhead, Berks.  
 1938 \*Cherry, C. E., N.D.H., F.Inst.P.A., S., Parks Dept., Seear's Park, St. Dunstons Hill, Cheam, Surrey.  
 1938 Chevalier, M. M., 5 Rue Beaugrenelle, Paris, 15me, France.  
 1911 Child, H. V., Kew Convent, Kew, Victoria, Australia.  
 1970 Childs, A. P., N.D.H., 14 Brantfell Road, Blackburn, Lancs.  
 1946 -Christopher, Mrs. F. (Allen, B.), Boro Farm, Tresco, Isles of Scilly, Cornwall.  
 1961 -Chuter, R., Dip.Arb., 66 Maple Grove, March, Cambridgeshire.  
 1957 -Claiden, R. J. T., 9 Poling Close, Goring-by-Sea, Worthing, Sussex.  
 1955 Clark, D. V., Brookside Nursery, Ware Road, Wormley, Herts.  
 Clark, Miss Frances, Norwood, Baileys Drove, Wool, Dorset.  
 1946 -Clark, J., D.I.P.A., S. Parks, Dover Parks Dept., Kent.  
 1948 \*Clark, Mrs. J., N.D.H. (Miss Eperon), ditto.  
 1923 -Clark, T. E., P.P.Inst.P.R.A., "Harrowby," 37 New Church Road, Smithills, Bolton, Lancs.  
 1932 \*Clarke, F., N.D.H., 69 Horringer Road, Bury St. Edmunds, Suffolk.  
 1933 \*Clarke, T. R., Plumpton Nurseries Ltd., Sussex.  
 1957 Cleet, A. T., P.O. Box 2824, Johannesburg, South Africa.  
 -Clemson, Mrs. A. L. M. (See Miss Atkinson).  
 1958 -Clift, M., Westfield, Thorndown Lane, Windlesham, Surrey.  
 1970 Clothier, P. F., N.D.H., 22 Heathcote Road, Twickenham, Middlesex.  
 1930 Coales, T. D., 14 Board School Road, Woking, Surrey.  
 1949 -Coates, C. F., 9 The Bank, Catterick, Richmond, Yorkshire.  
 1933 \*Cocker, H. R., A.H.R.H.S., Casella Postale 5, Noventa di Piave, Prov. di Venezia, Italy.  
 1959 -Coghlan, R., Trevena, Holders, St. James, Barbados, W. Indies.  
 1971 -Cole, G., Lower Lodge, Cockington Lane, Cockington, Torquay, Devon.  
 1960 -Cole, T. J., 2700 Priscilla Street, Ottawa, Ontario, Canada, K2B 7EZ.  
 1960 Cole, Mrs. T. (Miss B. Briggs), ditto.  
 1967 -Coleman, D. V.,  
 1958 -Collett, M. J., 125 Mandeville Road, Enfield, Middlesex.  
 1959 \*Collin, H., 13 Defoe Avenue, Kew Gardens, Richmond, Surrey.  
 1939 \*Collins, C. J., F.I.P.A., S., 42 Gainsborough Road, Colchester, Essex.  
 1955 -Collins, G. E., N.D.H., Sronidubh, Poolewe, Achnarheen, Ross-shire.  
 1955 -Comber, J. B., Djl. Hang Djebat 3, P.O. Box 301, Medan, Sumatra, Indonesia.  
 1935 -Commeau, J., 28 Avenue de Mendiguren, 06000, Nice, France.  
 1923 †\*Conn, P. W. H., M.Sc., P.P.Inst.P.R.A., A.H.R.H.S., The Bridge, Surrey Road, Seaford, Sussex.  
 1949 \*Constable, F., Parks, Cem. and Allotments Dept., The Council House, Corporation Street, Derby.  
 1921 \*Cook, F. J., S., 16 Seventh Avenue, Walmer, Port Elizabeth, South Africa.  
 1962 -Cook, G. A., 209 Portland Street, Ashton-under-Lyne, Lancs.  
 1945 \*Cook, G. G., M.B.E., "The Conifers," Wright's Hall, Woolston, Southampton, SO2 9HN.  
 1929 \*Cook, L., 31 Cardigan Crescent, Milton, Weston-super-Mare, Somerset.  
 1915 \*Coombes, G., P.O. Box 1808, Thousand Oaks, California, 91360, U.S.A.  
 1944 Cooper, Miss B. (See Mrs. C. F. Jackson).



- 1925 \*Cooper, E. C. W., "Jescot," Shripney Road, Bognor Regis, West Sussex.  
 1935 \*Corkhill, W. J., Waen Rodyn Nurseries, Bodfari, Denbigh, Denbighshire.  
 1935 Cossum, H. A., 1 Marble Hill House Drive, Evesham Rd., Pittville, Cheltenham.  
 1932 Cousin, G. J. D., Dept. of Agric., Lapsi Street, St. Julians, Malta.  
 1924 -Coventry, T., 210 Towcester Road, Northampton.  
 1923 \*Coward, E. F., 84 Herne Hill Road, Herne Hill, London, S.E.24.  
 1932 \*Coward, E. J. H., Major, A.H.R.H.S., "The Spinney," Ballarnard Road, Douglas, I.O.M.  
 1945 Cowell, Miss M. C., B.Sc., N.D.H. (See Mrs. Smith).  
 1968 Cowley, R. C., 40 Minford Gardens, W.14.  
 1949 Cox, H., 38 Allen Road, N.E. Atlanta, 5, Georgia, U.S.A.  
 1971 -Cox, J. P., 50 Forrest Road, Kew, Surrey.  
 1920 \*Craig, Mrs. A. P., The Hall, Headcorn, Kent.  
 1940 \*Cramer, Johannes D. W., 395 Zephyr Street, Denver, 26, Colorado, U.S.A.  
 1940 Cramer, Mrs. (B. N. Shepherd), ditto.  
 1944 \*Cranfield, Mrs. I. E. (Miss Bolton), 30 Bramley Way, West Wickham, Kent.  
 1946 Cropley, R., Plant Pathology Section, East Malling Research Stn., East Malling, Maidstone, Kent.  
 1955 -Crowder, G., Supt., Walton Hall Gardens, Higher Walton, Nr. Warrington, Lancs.  
 1949 -Cudd, M. R., 125 Crescent Lane, Clapham Park, London, S.W.4.  
 1938 Curry, T. G., 40 The Drive, Barking Essex.  
 1956 \*Curtis, E. W., S.D.H., Curator's House, Botanic Gardens, Glasgow, W.2.
- 1955 Dahampath, U. M. P., C., University Park, Peradeniya, Ceylon.  
 1954 Dalgeish, J., The Flat, Sudley, Mossley Hill Road, Liverpool, 18.  
 1953 Dally, H. R., Guernsey Plants Ltd., Guernsey, C.I.  
 1927 -Dandy, J. E., M.A., F.L.S., "Rowans," Grove Road, Tring, Herts.  
 1918 \*Danes, Mrs. V. M. (Bell), Orchard Spring, 23 The Hill, Wheathampstead, St. Albans, Herts.  
 1960 Darbyshire, P. J., 17 Vernon Place, Canterbury, Kent.  
 1965 -Davenport, R., 18 Thornes Road, Thornes Park Nursery, Thornes, Wakefield, Yorks.  
 1947 Davenport, W., Court Lees School, Godstone, Surrey.  
 1967 -Davidge, R., Palavas, Hatch Close, Addlestone, Weybridge, Surrey.  
 1941 Davidson, Miss I. M., 37 Westmorland Road, Sale, Cheshire M33 3QX.  
 1938 \*Davies, H. F., C., Ewanrigg Nat. Park, c/o Nat. Park Board, Salisbury, Rhodesia.  
 1940 -Davies, P. W. C., S. of Parks, 20/22 St. George's Chambers, Merrial Street, Newcastle-under-Lyme, Staffordshire.  
 1919 Davies, Miss R. A. (See Mrs. Bysouth).  
 1951 -Davies, R. S., Hawthorn Nursery, Lower Common, Longden, Nr. Shrewsbury.  
 1931 Davis, H. T., 119 Talbot Hill, Brislington, Bristol 4.  
 1922 \*Davis, Mrs. (Miss O. Rudolph), 3 Dean Road, Cricklewood, London, N.W.  
 1944 \*Dawson, D., 50 Blandford Avenue, Oxford.  
 1948 -Dayson, F. G., 34 Forest Row, Roebuck, Stevenage, Herts.  
 1937 Dean, G., D. of Parks and Res., Auckland City Council, Private Bag, Auckland, New Zealand.  
 Dean, H. A., Stonehouse Farm, Greenmount Lane, Bolton, Lancs.  
 1958 Dean, P. J., 7 Lower Park Terrace, Pontypool, Monmouthshire, S.W.  
 1936 \*Dean, R. E., Regional Grounds Maintenance Officer, Reg.H.Q., Dept. of Env., Lawnswood, Leeds, 17.  
 1964 -Deans, R. F., 4 Church Road, Silsoe, Nr. Bedford, Beds.  
 1960 -Deans, T., N.D.H., Reaseheath, Nantwich, Cheshire, CW5 6DF.  
 1938 De Clerq, L., Rue de Gand, 227 Mont St. Amand-Gand, Belgium.  
 1964 Dennis, Miss M. J. (See Mrs. Griffin).  
 1960 Derrick, A. F., 20 Tern Gardens, Cranham, Upminster, Essex.  
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- 1946 †-Gilmour, J. S. L., M.A., F.L.S., V.M.H., D., University B.G., Cambridge.
- 1952 -Gilmour, W. N. G., N.D.H., F.Inst.P.R.A.(Dip.), Deputy Manager, City of Sheffield Parks Dept., Sheffield. S8 9FL.
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- 1946 -Hack, H. R. B., 33 Manor Road, Henley-on-Thames, Oxfordshire.
- 1954 -Halhead, J., 2(A) Rosehill Park, West Sutton, Surrey.
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- 1971 -Hallsworth, C. D., 10 The Mount, Stanford-le-Hope, Essex.
- 1933 -Hall, H., 17 Cooperation Street, Vredendal, C.P., S.A.
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- 1916 \*Hansen, C. Bekker, c/o Société du Nadal, Quelimane, Portuguese East Africa.
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- 1933 -Harper, A. E., S., Westleigh, 10 Pembroke Gardens, Appleton Park, Warrington, Lancs.

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 1968 -Jones, Miss M. (See Mrs. Graham).  
 1956 -Jordan, J. W., 35 Pine Grove, Maidstone, Kent.  
 1922 \*Joy, Mrs. A. E. C. (Warner), Cleeve Cottage, Brasted, Chart, Nr. Westerham, Kent.  
 1937 \*Joy, C. A., 1 Doyne Road, Branksome, Parkstone, Poole, Dorset.  
 1946 -Joy, G. S., Emmetts Lodge, Ide Hill, Sevenoaks, Kent, TN14 6AY.  
 1940 Judge, Miss B. H., Min. of Fuel & Power, Room 619, Westminster, 7, Millbank, S.W.1.
- 1970 -Kachecheba, J., B.Sc., M.Phil., E.A.A.F.R.O., P.O. Box 30148, Nairobi, Kenya.  
 1965 Karani, W. J., Tea Research Institute of E. Africa, P.O. Box 91, Karicho, Kenya.  
 1967 -Keevil, A., 8 Meadow Side, Logger Heads, Market Drayton, Shropshire.  
 1937 -Keith, R. H., 160 Centre St. West, Richmond Hill, Ontario, Canada.  
 1926 Kemp, H. W., H.G., Queen Anne's School, Cavesham, Oxford.  
 1935 -Kennelly, A. G., 80 Ravenswood Road, St. Clair, Dunedin, S.W.1, New Zealand.  
 1960 -Kerr, J. M., N.D.Arb., 34 Hemper Lane, Sheffield S8 7FD.  
 1959 -Kerr, R. T., N.D.H., "Barrington," 12 Broadoak Lane, Bexhill-on-Sea, Sussex.  
 1969 -Ketley, P. A., c/o Caneel Bay Plantation, Virgin Islands, St. Thomas, U.S. 0080.  
 1964 -Kilby, P., The Flat, Hoblingwell Wood Rec. Ground, Leasons Way, St. Pauls Cray, Kent.  
 1957 -Killick, Dr. D. J. B., Bot. Res. Inst., Private Bag x101, Pretoria, S.A.  
 1943 King, Miss E. B. (See Mrs. E. B. Brabin-Smith).  
 1966 Kingi, E. B., Municipal Council of Mombasa, P.O. Box 440, Mombasa, Kenya.  
 1913 Klaaborg, H. J., Gartneriet Langdallund, Kolding, Denmark.  
 1929 †\*Knight, F. P., V.M.H., F.L.S., 88 Lower Guildford Road, Knaphill, Surrey.  
 1943 \*Knight, Miss K. M., Boundary Nurseries, Hillingdon Heath, Middlesex.  
 1945 Knowlman, Miss B., Wayside, Wareham, Dorset.  
 1936 Koepf, K. (20A) Jinsen N.R., 42 Unber Elze, Hanover Land, Germany.  
 1936 Koning, T. H., 57 Woltersweg, Hengelo (O), Holland.  
 1929 Korn, W. M., Inst. of Bot., Botanic Gardens, Leningrad, 22, U.S.S.R.  
 1946 \*Kruger, H. J., S., Duffryn Gardens, Glamorgan, Wales.
- 1938 Lagoria, E., La Mortola, Ventimiglia, Italy.  
 1933 Lake, E., 36 Gledwood Crescent, Hayes, Middlesex.  
 1941 -Laking, L., B.S.A., LL.D., P.Ag., Royal Botanic Gardens, Box 399, Hamilton, Ontario, Canada.  
 1941 Laking, Mrs. B. M. (Tarver), 1064 Unsworth Avenue, Burlington, Ontario.  
 1936 Lancaster, A. P., S., Hort. Divn., P.W.D., New Delhi, India.  
 1919 Landau, Miss M., Prejazz, 36, Lodz, Poland.

- 1937 \*Langham, H. G., N.D.H., F.L.S., Orchard Heights, Green Lane, Churt, Surrey.  
 1939 Lannie, L., S. of Reserves, Reserves Dept., Nelson Park, Napier, New Zealand.  
 -Lauert, Dr. E., 15 Halford Road, Richmond, Surrey.  
 1969 Lawrence, J. B., 14 Napoleon Road, Twickenham, Middlesex.  
 1924 †\*Lawrence, W. J. C., O.B.E., V.M.H., F.Inst.Biol., 5 Rabling Road, Swanage,  
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- 1941 \*Lawson, J., F.A.I.P.R., B.E.M., 60 Parkway, Yallourn, Vic. 3838, Australia.  
 1963 Leaver, G. J., 110 Bellhouse Road, Eastwood, Leigh-on-Sea.  
 1969 -Lee, Miss J. (See Mrs. Tuck).  
 1922 \*Lees, Mrs. S. T. (Burrell), Woodmans, Burwash, Sussex.  
 1950 Lees, S., Registrar, Hollinwood Cemetery, Oldham, Lancs.  
 1933 -Leigh, D. H., S., Parks and Reserves, Nelson, New Zealand.  
 1967 -Leistner, O. A., Dr., Bot. Res. Inst., Private Bag x101, Pretoria, S.A.  
 1937 \*Leith, G. J., Flat 1, The Library, Rose Hill, Hampton, Middlesex.  
 1971 -Leppard, M. J., 51 Ingles, Welwyn Garden City, Herts.  
 1945 \*Letch, Mrs. A. J. (Evans), The Old School, Bradwell, Nr. Braintree, Essex.  
 1941 \*Lewis, J., N.D.H.(N.Z.), 156 Guppy Road, Taradale, Napier, New Zealand.  
 1957 \*Lewis, J., B.Sc., F.L.S., 23 The Avenue, Kew Gardens, Richmond, Surrey.  
 1964 -Lewis, W., 69 Somerford Road, Parkfield Estate, Broughton, Chester, CH4 0SY.  
 1948 Liebich, Mrs. I. (Rzadkowska), 3465 Cole des Neiges, Apt. 41, Montreal,  
 Canada.
- 1948 -Lingard, H. M., H.G., Ashridge College, Berkhamsted, Herts.  
 1962 Linnegar, S., 1 New Road, Ruscombe, Twyford, Berks.  
 1952 -Littlewood, G., 177 Chesterfield Road, Matlock, Derbyshire.  
 1948 -Lockley, R. E., 20 Heather Close, Thurston, Nr. Bury St. Edmunds, Suffolk.  
 1931 Lomas, T., 18 Byron Gardens, Carshalton, Sutton, Surrey.  
 1930 Lorensi, O., La Mortola, Ventimiglia, Italy.  
 1940 \*Lothian, T. R. N., O.B.E., N.D.H.(N.Z.), D., B.G., Adelaide, 5000-S. Australia,  
 South Australia.
- 1948 Lovatt, D. W., 74 Norway Drive, Slough, Bucks.  
 1971 Lovett, A. R., 9 Dovehouse Street, Chelsea, S.W.3.  
 1961 -Lowe, B. E., N.D.H., A.I.P.A., 61 Ongar Road, Writtle, Nr. Chelmsford, Essex.  
 1961 -Low, J. J. D., 11 May Avenue, Napier, New Zealand.  
 1964 Low, Mrs. S. K. (Miss S. K. Walton), ditto.  
 1955 Lucas, J. A., Efford Experimental Stn., Lymington, Hants.  
 1925 Luff, C. E. E., c/o Westonbirt Arboretum, Nr. Tetbury, Glos.  
 1960 -Lycett, K. M., 65 Rochester Drive, Westcliff-on-Sea, Essex.  
 1966 -Lycett, R. E., 86 Hall Street, Cambridge, New Zealand.
- 1963 MacArthur, A. D., 18 Belvedere Street, Epsom, Auckland, New Zealand.  
 1939 MacCartney, F. M., Route 1, Box 587, Turner, Oregon, 97392, U.S.A.  
 1973 -Macdonald, E. W., 7 Mortlake Road, Kew, Richmond, Surrey.  
 1951 -MacGuffog, D., S., 46 Cobbold Avenue, Eastbourne, Sussex.  
 1938 \*Mackaness, F. G., Rt 1 Box 225, Troutdale, Oregon 97060, U.S.A.  
 1934 Mackenzie, J. G. C., 615 Tomoara Road, Hastings, New Zealand.  
 1942 -Mackinnon, F. H., 74 Grantham Road, London, S.W.9.  
 1925 \*Mackintosh, J. J., S., Park Cottage, Delapre, Northampton.  
 1919 \*Madan, Miss H. P. (See Mrs. Wood).  
 1963 -Maddox, J. A., 12 Barnard Gardens, Hayes, Middlesex.  
 1971 Maguire, D. T., 1 Leybourne Park, Kew, Surrey.  
 1910 †\*Maitland, T. D., M.B.E., A.H.R.H.S., Flat 7, 20 Embankment Gardens, London,  
 SW3 4LW.
- 1930 Mann, J. A., D., Newcastle Parks Dept., Newcastle.  
 1969 -Mann, R. B.,  
 1938 Mansell, P. W., "Meliden," Queens Road, Teddington, Middlesex.  
 1970 -Marchant, C. D., Ph.D., 3071 West 28th Avenue, Vancouver, 8, British Columbia.  
 1950 Marden, J. A., 250 Ladyshot, Harlow, Essex.  
 1964 Marshall, R., 6 Waterloo Way, Bredon, Tewkesbury, Glos.  
 1958 Marshall, W., S., 47 Sandwich Road, St. Neots, Hunts.  
 1942 \*Martin, Mrs. C. O., B.Sc., Hort., J.P. (Miss C. O. Bell), 55 Old Castle Road,



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- 1919 \*Mash, Miss J. (See Mrs. Flack).  
 1922 -Mason, R. E., 12 Swail House, Ashley Road, Epsom, Surrey.  
 1962 -Matthews, T, F.L.S., F.Inst.P.A.(Dip.), M.Inst.B.C.A., J.P., Council Offices, Blaydon-on-Tyne, Co. Durham.  
 1954 -Maunder, P., N.D.H., F.Inst.P.A.(Dip.), Dip.Arb., 89 East Lodge Park, Farlington, Portsmouth.  
 1919 Maxted, Miss M., La Rochelle, Guernsey.  
 1935 May, J. E., Park Lodge, South Park, Ilford, Essex.  
 1930 Mayne, H. F., 68 Victoria Road, Hale, Cheshire.  
 1948 McCartan, J., S., The Bungalow, Coronation Gardens, Rhyl, Flint.  
 1936 -McCormack, P. F., A.H.R.H.S., D.I.P.A., The Bridge, Ibbotsons Lane, Sefton Park, Liverpool, 17.  
 1957 -McCracken, J. S., 69 Somerville Way, Prebendal Farm Estate, Oxford Road, Aylesbury, Bucks.  
 1944 \*McCulloch, Mrs. E. (Thompson), 117 Edgworth David Avenue, Gwahroonda, N.S.W., Australia.  
 1960 -McDowell, C. I., N.D.H.(N.Z.), 35 Fitzroy Road, New Plymouth, Taranaki, New Zealand.  
 1970 -McGillivray, D. J., P.O. Box 107, Castle Hill, N.S.W., Australia 2154.  
 1935 McKenzie, W. W., F.I.P.A., J.P., 12 Mitchell Street, Kilmarnock, Ayrshire.  
 1952 McLachlan, D. D., "Kanturk," Brant Road, Lincoln.  
 1952 McLachlan, P. A., 3501 Newark Street, N.W., Washington 16, D.C., U.S.A.  
 1966 -McLaughlin, O. D., "Landmark," Jenningsland, Smith Parish, Bermuda.  
 1911 McNab, J., 9 Coniscliffe Road, New Park Estate, Palmers Green, N.13.  
 1924 \*McPherson, J. A., N.D.H.(N.Z.), S. of Parks, Auckland, New Zealand.  
 1948 -Medcalf, J. G., N.D.H., D.I.P.A., Holly Lodge, 165 Hill Lane, Southampton, Hants.  
 1947 Meherne, C. D., "Omanu," Upper Clifton Terrace, Sumner, New Zealand.  
 1916 Meili, K., St. Karlsru., 34 Lucerne, Switzerland.  
 1950 -Melles, A. M., 8 Church Street, Madeley, Dawley, Shropshire.  
 1952 -Mellors, G., 13 St. George Street, Hanover Square, London, W.1.  
 1968 -Melville, R., B.Sc., Ph.D., F.L.S., 121 Mortlake Road, Kew, Richmond, Surrey.  
 1957 Messenger, G. W., 11 Mere Close, Great Barton, Bury St. Edmunds, Suffolk.  
 1969 -Metcalf, Dr. C. R., O.B.E., M.A., Ph.D., F.I.Biol., 35 Pensford Avenue, Kew, Richmond, Surrey.  
 1946 -Middleton, J., 20 Belton Gardens, Leigh-on-Sea, Essex.  
 1968 Mikaya, S., Parks Dept., P.O. Box 1861, Mombasa, Kenya.  
 1942 -Milburn, Miss P. M. K. (See Mrs. F. Brooks Purchas).  
 1916 Miles, Sergt. S. H., Hill House, Little London, Nr. Basingstoke, Hants.  
 1957 Millard, R., Aylesbury College for Further Education, Hampden Hall, Stoke Mandeville, Bucks.  
 1971 Miller, B. C. B.  
 1968 Miller, D. H., 81b Blatchington Road, Hove 3, Sussex.  
 1945 Miller, Miss E. M., Periton Farm House, Muirhead, Som.  
 1958 Mills, L. C. R., 50 Alexandra Road, London, N.W.8.  
 1971 -†Milne-Redhead, E. W. B. H., I.S.O., T.D., M.A., F.L.S., "Parkers," 43 Bear Street, Nayland, Colchester, Essex, CO6 4HX.  
 1950 Milton, G., Parks Dept., Clacton-on-Sea, Essex.  
 1966 Mitchell, J., 6 Silvertop Close, Westleigh, New South Wales, 2120, Australia.  
 1947 -Mitchellmore, C. J., N.D.H., Flintshire College of Horticulture, Northrop, Nr. Mold, CH7 6AA, Flintshire.  
 1956 -Moore, D. J., F.I.P.A.(Dip.), P.O. Box 108, Hamilton, Bermuda.  
 1930 Moore, R. E., Municipal B.G., Cape Town, South Africa.  
 1973 -Morgan, G., Vine Cottage, Newtown, Kingbury Episcopi, Martock, Somerset, TA12 6BQ.  
 -Morgan, Miss B. M., Beech Lane, Goytre, Pontypool, Monmouthshire.  
 1946 Morrissey, Miss S., B.Sc., Ph.D., D.C.C., 7 Ashburnham Road, Chelsea, S.W.10.  
 1946 -Moss-Holland, Miss E. (See Mrs. E. M. Wakefield).  
 1935 Mottier, P., Avenue Leopold-Robert 83, La-Chaux-de-Fonds, Switzerland.

- 1937 \*Mowforth, R. K., N.D.H., The Farm Institute, Rodbaston, Penkridge, Staffs.  
 1956 Müller, T. C., Univ. of Salisbury, Salisbury, Rhodesia.  
 1934 -Mullins, A. T., Gardener's Cottage, Pembroke Lodge, Richmond Park, Richmond, Surrey TW10 5HX.  
 Murden, J. A., 38 Cardigan Drive, Bury, Lancs.  
 1954 Murden, R., Miniver Crescent, Aspley E.S., Nottingham.  
 1904 Murphy, J., H.G., Huntingdon Castle, Clonegal, Co. Wexford, Eire.  
 1966 Mwangi, J., City Parks Dept., P.O. Box 30075, Nairobi, Kenya.
- 1967 -Nash, B. A., N.D.H., The Stable Flats, Petersfield Road, Havant, Portsmouth, Hants.  
 1902 \*Navel, H. D., Jardin Botanique, Metz, France.  
 1951 -Naylor, G. T., Whitehouse, Hydraseeders Ltd., Coxbench, Derby, DE2 5BH.  
 1967 -Nau, Miss J. (See Mrs. Scarr).  
 1957 -Neighbour, E. C., 3 Birchside Avenue, Glossop, Derbyshire.  
 1928 \*Nelmes, W., M.B.E., V.M.H., A.H.R.H.S., F.I.P.A., Willowfield, Upper Common, Aylburton, Lydney, Glos.  
 1945 Nelson, J. S., The Lodge, Acton Park, The Vale, Acton, Middlesex.  
 1946 \*Nelson, Mrs. J. (Helmsing), ditto.  
 1950 Newhams, D., c/o Parks Dept., Neath, Glam.  
 1924 \*Newman, C. A. S., Clovelly Cottage, Lampton Road, Hounslow, Middlesex.  
 1950 Newton, Miss D. M. (See Mrs. Pringle).  
 1958 -Nicholson, Mrs. R. A. (Floyer), P.O. Box 259, Mbeya, Tanzania.  
 1925 \*Nisbett, E. I., Dazell Village Way, Little Chalfont, Amersham, Bucks.  
 1946 \*Norris, J. L., 19 Montrose Avenue, Whitton, Twickenham, Middlesex.  
 1948 -North, F. G., 139 Mildmay Road, Stevenage, Herts.  
 1969 -Norton, M. R., The Old Dairy Cottage, Moreton-in-the-Marsh, Glos.  
 1968 Nunov-Mensah, Mrs. Madia (Miss L. Annawetty), Parks and Gardens Dept., P.O. Box M169, Accra, Ghana.  
 1953 -Nutt, P. A., 125 Cedarcroft Road, Kennett Sqare, Pennsylvania 19348, U.S.A.
- 1960 Obi, J. A., Plant Introduction Service, Federal Agr. Research, P.M.B. 5042, Ibadan, Nigeria.  
 1921 O'Brien, Mrs. C. P. (Rolfe), 113, 10th Avenue, N.W. Calgary, B.C., Canada.  
 1966 O'Connor, J., Westmount, Shrubbery Gardens, Wem, Shropshire.  
 1937 Offley, J., 86 The Alders, Heston, Hounslow, Middlesex.  
 1952 Offord, K. A., Cornerways, 5 Larchwood Close, Hadley Road, Ipswich.  
 1969 -Oliver, E. G. H., Bot. Res. Unit, Box 471, Stellenbosch, C.P., S.A.  
 1927 Orchard, O. B., "Orwinton," New Road, Broxbourne, Herts.  
 1952 O'Reilly, M., 2 Dalton Avenue, Bewsey, Warrington.  
 1928 -Ovenden, S. F., 34 Station Road, Minster, Ramsgate, Kent.  
 1958 Overeynder, H., Yew Tree Cottage, Oxford Road, Donnington, Newbury, Berks.  
 1965 -Overland, F. A., The Lodge, Brentlodge Park, Church Road, London, W7 3BP.  
 1970 Owen, D. R., P.O. Box 331, Lilongwe, Malawi.
- 1929 Page, G. W., Wrights Nurseries, Pangbourne, Berks.  
 1938 Page, P. W., c/o Parks Dept., Box 2824, Johannesburg, South Africa.  
 1970 Painter, D. M., 26 Warwick Road, Twickenham, Middlesex.  
 1949 Palmer, W., 25 Wear Bay Crescent, Folkestone, Kent.  
 1952 -Parker, F., 4120 Peachtree Road, Apartment 8D, Atlanta N.E., Georgia, 30314, U.S.A.  
 1952 -Parker, H., Cwmdonkin Park House, 70 Penlan Crescent, Uplands, Swansea, Glam.  
 1959 -Parkin, Miss M. E., Greenhouse Supervisor, Wascana Centre Authority, Regina, Saskatchewan, Canada.  
 1971 -Parkinson, W., 1 Arden H., Rear of Middlesex Cricket G., East End Road, Finchley, N.3.  
 1947 Parmentier, W. H., 7 New Street, St. Annes, Alderney, C.I.

- 1949 \*Parsons, C. R., The Holding, Shrimpney, Nr. Bognor Regis, Sussex.  
 1913 \*Parsons, T. H., O.B.E., F.L.S., 175 Alberta Avenue, Cheam, Surrey.  
 1958 -Paterson, A. P., N.D.H., M.Ed., Chelsea Physic Garden, 66 Royal Hospital Road, London, S.W.3.  
 -Pattison, G., 28A High Street, Teddington, Middlesex, TW11 8EN.  
 1926 Patton, H. S., S., Parks, Lloyd Park, Forest Road, Walthamstow, E.17.  
 1964 -Pead, C. B., Flat 1, 8 Collington, Bexhill-on-Sea, Sussex, TN39 3QA.  
 1960 Pearce, D. G., T.A., Smethwick Park, Cemeteries and Allotments Dept., Greater London.  
 1933 \*Pearce, W., Pound Farm, Brockmanton, Nr. Leominster, Herefordshire.  
 1965 -Pearson, D. J., 26 North Crescent, North End, Durham City.  
 1959 -Pedley, A., D.I.P.A., 10 Parklands Avenue, Leamington Spa, Warwickshire.  
 1967 -Penberthy, B., 15 Atlantic Terrace, Camborne, Cornwall.  
 1950 -Perkins, B. L., F.L.S., Port Reitz, P.O. Box 9807, Mombasa, Kenya.  
 1925 -Perkins, H. A. T., 16 Acheson Road, Hall Green, Birmingham, 28.  
 1940 \*Pettigrew, Capt. A. H., S., Guarlford Court, Nr. Malvern, Worcs.  
 -Phillips, B., 45 Ennerdale Road, Kew, Surrey.  
 1972 -Phillips, Mrs. S. M., 7 Timber Bank, Frimley Green, Camberley, Surrey.  
 1964 Pierce, D. N., 28 West Hall Road, Richmond, Surrey.  
 1908 Pieris, W. I., Rubber Research Scheme, Culloden, Nemboda, Ceylon.  
 1933 Pinnion, W. S., 42 High Road, West Felixstowe, Suffolk.  
 1960 -Pitcher, B. F., 11 Crestbrook Place, Green Lanes, Palmers Green, London, N13 5SB.  
 1968 Pitt, R., 36 Walpole Road, Runcorn, Cheshire.  
 1942 \*Plummer, Miss E. (See Mrs. Melville Towers).  
 1964 -Popham, C., Downhouse Cottage, Holly Bush Lane, Stoke Bishop, Bristol BS9 1JZ.  
 1964 Popham, Mrs. J. A. (Miss Hyde Trutch), ditto.  
 1930 \*Porter, W., 30 Rockstone Road, Bassett, Southampton.  
 1928 \*Poulter, C. G. W., 22 Burnside Row, Kirkmichael, Ayrshire.  
 1958 -Powell, C. U., Dolphin Cottage, 17 Police Station Road, Hershaw, Surrey.  
 1957 -Powell, M. C., B.Sc., Ph.D., 16 Walstenbury Road, Rustington, Sussex.  
 1937 Poy, A. L., 14 Rue des lices, Blois, L. et Ch., France.  
 1972 Preston, G. H., A.H.R.H.S., F.L.S., 251 Hinton Way, Great Shelford, Cambridge, Cambs., CB2 5AN.  
 1962 -Preston, W. T., April Cottage, Walmer Gardens, Ealing, W.13.  
 1949 -Price, J., "Greenbank," Sully Road, Penarth, Glam., CF6 2TZ.  
 1967 -Pring, Miss G. M., 24 Shaftesbury Road, Richmond, Surrey.  
 1956 -Pringle, D. J., P.O. Box 40386, Nairobi, Kenya.  
 1956 Pringle, Mrs. D. (Miss D. M. Newton). Address as above.  
 1925 \*Pritchard, W. B., 17 Maelgwyn Road, Llandudno, Caernarvonshire, North Wales.  
 1957 Prive, A. E., 12 Bis Avenue, Outribon, Vilomomble, Seine, France.  
 1937 \*Prockter, N. J., F.L.S., 110 Malthouse Rd., Southgate, Crawley, Susx. RH10 6BH.  
 1937 Prolluis, Karl, Vichels, Post Neristad (Dosse), Germany.  
 1970 Protheroe, J., Barn Cottage, Redlands, Highworth, Wiltshire.  
 1946 -Puddle, C. E., M.B.E., V.M.H., Bodnant Cottage, Tal-y-Cafn, Denbighshire, Wales.  
 1942 -Purchas, Mrs. F. Brooks (Milburn), The Thatched House, Roundwood Lane, Haywards Heath, Sussex.  
 1908 Pyman, G. W., 472 Pinner Road, Pinner, Middlesex.  
 1944 Pymount, E. W., 234 Painswick Road, Gloucester.  
 1906 Race, A., Harewood Nurseries, Darlington, Durham.  
 1962 -Rainey, J., M.C., 33 Diamond Gardens, Finaghy, Belfast.  
 1963 -Ralston, D., Castle Harbour Hotel, Bermuda.  
 Ramsbottom, Miss M., 34 Ennerdale Road, Kew, Richmond, Surrey.  
 1964 Ranasinha, G. O. W., 95 Udamadapotha Road, Asgiriya, Kandy, Ceylon.  
 1925 Ransom, D. H., Ransom & Son, Ransom's Gdn. Centre, Faldovet-Gorey, Jersey.  
 1959 Ransom, D. P., ditto.  
 1951 -Rattenbury, H. C. P., 36 Bodiam Road, Ipswich, Suffolk.

- 1951 -Ravenscroft, A., Parks Dept., Municipal Offices, Harrogate, Yorks.  
 1972 \*Rawlings, S. W., A.R.P.S., 189 Castle Lane West, Bournemouth, BH9 3LD.  
 1971 Reed, J., 38 Heathcombe Road, Bridgwater, Somerset.  
 1906 Renton, J. S., Provincial Nurseries, Essondale, B.C.  
 1941 \*Redman, J., N.D.H., Royal Bot. Gdns., Box 399, Hamilton, Ontario.  
 1955 Riach, D., D.S., Supt., Parks and Recs., Parks House, Dixon Street, Masterton, New Zealand.  
 1967 -Rich, A., Inst.P.R.A., 46 Aberdulais Road, Gabalfa, Cardiff, CF4 2PJ.  
 1949 Richardson, C. L., D.I.P.A., Deputy Parks Supt., c/o Parks Dept., Cheltenham.  
 1931 \*Richardson, L. A., Garden Craft Nursery, 134 Hector Street, Osborne Park, 6017, Western Australia.  
 1969 -Ringia, W. J., Dar-es-Salaam City Council, P.O. Box 9084, Dar-es-Salaam, Tanzania.  
 Rippon, A. V., 567 Moore Road, Durban, South Africa.  
 1958 -Risely, T. F., N.D.H., D.I.P.A., 1 Harvey Road, Dunstable, Bedfordshire.  
 1968 Roberts, J., 10 Little Lane, Ravensthorpe, Northants.  
 1954 -Roberts, M. S. F., 8 Briars Close, Nuneaton, Warwickshire.  
 1928 -Roberts, S. J., 1 Cilymaenllwyd Fach, Pwll, Llanelli, Carmarthenshire.  
 1923 Roberts, W., 53 Eastridge Way, Tonbridge, Kent.  
 1922 Robertshaw, P., 80 Chelsea Drive, Durban North, Natal, South Africa.  
 1973 -Robinson, A., 5 Ballyoran Hgts., Portadown, Co. Armagh, N. Ireland.  
 1937 †\*Robinson, G. W., V.M.H., A.H.R.H.S., A.L.S., M.A., 17 Knoll Drive, Styvechale, Coventry.  
 1931 Robinson, J. A. M., 17 Kingwood Place, Abergele, North Wales.  
 1965 -Robinson, K., D.I.P.A., "Woodleigh," High St., Woolton, Liverpool, L25 7TO.  
 Robson, N. K. B., B.Sc., Ph.D., F.L.S., c/o Brit. Mus. Bot. Dept., Cromwell Road, S.W.7  
 Rockwell, Miss G. D. (See Mrs. Sheat).  
 1948 -Roddick, P. W., 44 Davids Drive, Wingerworth, Derbyshire.  
 1948 -Roddick, R. S., 2 Boundary Drive, Hunts Cross, Liverpool 25.  
 1956 Rogers, W. M., 14 Crummer Road, Grey Lynn, Auckland, New Zealand.  
 1951 Rodway, F. G., B.G., Glasgow, W.2.  
 1937 Rolff, S. B., Ljungbyhed, Scania, Sweden.  
 1948 -Rolls, E. V. H., A.I.L.A., A.Inst.P.R.A., "Summerlea," Breach Hill, Chew Stoke, Nr. Bristol.  
 1939 \*Ronco, L., Bordighera Piani, Borghetto, Italy.  
 1958 -Rooke, I. G., 97 Grove Road, Rayleigh, Essex.  
 1965 -Roome, C. W., East Lodge, Danson Park, Bexleyheath, Kent.  
 1963 Rose, A. J., A.Inst.P.R.A.(Dip.), The Lodge, Gardeners Drive, Newsham Park, Liverpool 6.  
 \*Ross-Craig, Miss S. (Mrs. J. R. Sealy), 15 Grosvenor Road, Richmond, Surrey.  
 1934 \*Rose, W. A., Colonial Research Inst., Freeport, Grand Bahama, Bahamas.  
 1972 Rotherham, J. E., 3 Dale Road, Dronfield, Sheffield, S18 6YG.  
 1938 Rottgardt, K. H., Staatliche Botanischer Garten, Hamburg, 36, Germany.  
 1961 Rover, Miss H. (Mrs. Self), 57 Priory Gardens, Highgate, London, N.6.  
 1920 Ruck, E. A., 48 Burns Way, Heston, Middlesex.  
 1930 \*Rudd, C. W., A.H.R.H.S., D.I.P.A., 7 Crescent Rise, Wood Green, N.22.  
 1936 Rudge, H. C., Parks Dept., Birmingham.  
 1922 \*Rudolf, Miss O. (See Mrs. Davis).  
 1932 \*Rumsey, R. H., Old Northern Road, P.O. Box 1, Dural, N.S.W. 2158, Australia.  
 1967 -Russell, T. A., Greenside, Kirk Yetholm, Kelso, Roxburghshire.  
 1928 \*Rutter, W. G., H.G., University Gardens, Edgbaston, Birmingham 15.  
 1935 Ruyter, B. J. de, 96 Tuinstraat, Tilling, Holland.  
 1957 -Ryder, F. P., Parks Dept., Cyfartha Park, Merthyr Tydfil, Glamorganshire.  
 1946 Rymer, Miss N. B. (See Mrs. Holcroft).  
 1948 Rzadkowska, Miss I. (See Mrs. Liebich).  
 1958 -Sales, J., N.D.H., Ledwell Lodge, 4 Burford Road, Cirencester, Glos.  
 1957 †\*Salisbury, Sir Ed., C.B.E., D.Sc., F.R.S., Croindere, Strandway, Felpham, Bognor Regis, Sussex.

- 1964 -Salter, B. J., Upper Garage Flat, "Heathfield," Coombe Lane, Croydon, Surrey.  
 1946 Sampson, Miss J. (See Mrs. R. C. Tucker).  
 1912 †\*Sargeant, T., 25 Cale Road, Haywards Heath, Sussex.  
 1950 Saunders, Miss B. J., 40 Cowley Road, London, S.W.14.  
 1972 -Savage, T., 6 The Watton, Brecon, Breconshire, Wales.  
 1951 Saville, B. R., c/o Llandaff Tech. College, Western Avenue, Cardiff, S. Wales.  
 1923 -Saville, D., 6 Ennerdale Road, Kew Gardens, Richmond, Surrey.  
 1970 Sawyer, C. F.  
 1967 -Saxon, E., H.G.,  
 1924 \*Sayer, H. W., 17 Landcross Drive, Abington Vale, Northampton.  
 1962 -Sayers, C. D., 6 Stockton Road, Durham City.  
 1940 -Sayers, D. W., 94 Potters Lane, Burgess Hill, Sussex.  
 1960 -Scales, K. W., The Lodge, Belmont Park, Blackboy Road, Exeter EX4 6SS.  
 1967 -Scarr, E., N.D.H.(S.A.), 1 Medway Road, Westville, Natal, South Africa.  
 1967 -Scarr, Mrs. (Miss J. Nau).  
 1968 -Scarr, S.  
 1958 Sceats, Mrs. (Miss A. D. Dunk), 29 Wilmington Avenue, Chiswick, W.4.  
 1945 Scott, Miss C. (See Mrs. Bundy).  
 1902 Seaborne, R. S., Penrhas Gardens, Exeter Road, Dawlish, South Devon.  
 1955 -Seager, T. J., Alexandra Park, Oldham, Lancashire.  
 1967 \*Sealy, J. R., B.Sc., F.L.S., 15 Grosvenor Road, Richmond, Surrey.  
 \*Sealy, Mrs. J. R. (See Miss S. Ross-Craig), ditto.  
 1923 -Semple, J. A., 82 Beechwood Road, Wellesley, Mass. 02181, U.S.A.  
 1949 \*Senogles, F., Matthew Arnold School, Cumner Hill, Oxford.  
 1944 \*Sharps, Miss F. A. (See Mrs. Ashby).  
 1949 Sharps, Miss J. (See Mrs. Hingston).  
 1938 -Shaw, F., N.D.H., Hort. Officer, Shire Hall, Cambridge, and 12 Warren Road.  
 1957 -Shea, J. O., 2 Ferring Close, South Harrow, Harrow, Middlesex.  
 1939 \*Sheat, W. G., Bali H. Nur., P.O. Box 174, Hillcrest, Natal, S.A.  
 1940 Shepherd, Miss B. N. (See Mrs. Cramer).  
 1968 Shepherd, I. L. M., 23 Woodnor Road, Shevington Vale, Nr. Appley Bridge, Lancashire.  
 1953 Shepherd, M. W., 23 Denmark Road, Exeter, Devon.  
 1960 Sherk, L. C., Evans Avenue, 700 Etobicoke 653, Port Colborne, Ontario, Canada.  
 1936 Shewan, H. T., Dept. of Horticulture, Asamankere, Gold Coast, West Africa.  
 1940 \*Short, J. G., Curator, Victoria University, Wellington, New Zealand.  
 1968 -Shutler, G., 101 Field Place Caravan Park, New Milton, Hants. BH25 7RD.  
 1952 -Sieben, J. R., Supt. of Parks, P.O. Box 49, Queenstown, Cape Province, S. Africa.  
 1937 Simpson, A. J., 244 Cuslefield Avenue, Toronto, 12, Ontario, Canada.  
 1970 -Sinnott, N. H., 6 Eaton Rise, Ealing, London, W5 2ER.  
 1968 -Skam, Miss M. I., M.B.E., 147 Lichfield Crt., Sheen Rd., Richmond, Sy. TW9 1AY.  
 1946 Sivyer, G. R., 30 Claygate Lane, Esher, Surrey.  
 1948 \*Slade, W. J., H.G., Napsbury Hospital, Nr. St. Albans, Herts. (North Lodge)  
 1929 -Slinger, L., The Slieve Donard Nursery Co., Newcastle, Co. Down, N. Ireland.  
 1954 Smalley, E., Old Surrey Hall, East Grinstead, Sussex.  
 1967 -Smith, A. R., 49 Westbourne Road, Halesowen, Worcestershire.  
 1959 -Smith, G. D., Klein Welgemeend, Lincoln Road, Lakeside, Cape Town, S.A.  
 1968 -Smith, G. F., Pukeiti, Rhododendron Trust, R.D., 38, Okato, Taranaki, N.Z.  
 1971 -Smith, J. A., 113 Longfellow Green, Offmore Farm, Kidderminster, Worcs.  
 1963 Smith, J. D. H.,  
 1930 \*Smith, J., F.Z.S., Braemar Street End, Canterbury, Kent.  
 1933 Smith, James W., S., Public Parks, Cheltenham, Glos.  
 Smith, K., 6 Orchard Way, Eastchurch, Isle of Sheppey, Kent.  
 1945 Smith, Mrs. M. (née Cowell), B.Sc., N.D.H.  
 1949 -Smith, W. S., Flat 1, White House, Canal Gardens, Leeds, LS8 1DQ.  
 1964 \*Souster, J. E. S., N.D.H., F.L.S., c/o The Old Vicarage, Moulsoford, Wallingford, Berkshire.  
 1945 \*Souster, Mrs. (Miss R. M. Ambrose), 27 Holmlea Road, Goring-on-Thames, Reading.  
 1919 \*Sparrow, Sqd.Ldr., Retrd., J.W., M.M., 7 Potts House, Great Milton, Oxford.

- 1964 Spate, G., 12 Lucknow Road, Willenhall, Staffordshire.  
 1901 †\*Spooner, H., Bod Awel, 2 Gorphwysfa Avenue, Prestatyn, LL19 7SL.  
 1946 –Sprague, Mrs. T. A., B.A., F.L.S., 7 Hatherley Road, Cheltenham, Glos.  
 1934 Spray, J. R., Eskbank Flower Farm, 49 Lothian Street, Bony Rigg, Midlothian.  
 1966 Sprunger, S., Starenstrasse 41, Basel 4000, Switzerland.  
 1924 \*Squibbs, F. L., 590 Newmarket Road, Cambridge.  
 1942 Squire, Mrs. M. W. (Tanner), 28 Colston Road, East Sheen, S.W.14.  
 1939 Stanion, R. O., Director, Nottingham Parks Dept., Nottingham.  
 1934 Stayner, F. J., C., Karov Gardens, P.O. Worcester, C.P., South Africa.  
 1973 Stanfield, G. T., 27 East Sheen Avenue, East Sheen, S.W.14.  
 1945 \*Stent, Miss H. J. (See Mrs. Albert).  
 1970 –Stevens, A. D., 3 Taylor Avenue, Kew Gardens, Richmond, Surrey.  
 1968 –Stevens, Miss E., N.D.H., Kennel Farm, Clarendon, Salisbury, Wiltshire.  
 –Stevenson, Miss J., 19 Dunstable Road, Richmond, Surrey.  
 1908 \*Stirling, E., Danelachan, Colliston, Nr. Arbroath, Scotland.  
 1927 †\*Stock, C. R., P.P.Inst.P.A., 14 The Mead, Beckenham, Kent, BR3 2PE.  
 1953 Stone, C., 87 Crescent Road, Toronto, Ontario, Canada.  
 1950 –Stone, G. E., "Amberley," Kenton, Exeter, Devon.  
 1932 –Stonebridge, G. W., 24 Walterbush Road, Chipping Norton, Oxon.  
 1959 –Storer, D. T. M., D.I.P.A., Parks Supt. House, Yew Tree Nurseries, Rossett, Nr. Wrexham, Denbighshire, North Wales.  
 1952 –Storey, W. E., 88 Latchmere Road, Kingston, Surrey.  
 1970 –Storr, T. R. B., 122A Kew Road, Kew, Richmond, Surrey.  
 1958 –Strabel, J. F., 135 Queen Road, Vicars Cross, Chester, CH3 5HF.  
 1948 –Straughan, R. E., N.D.H., Derbyshire Agricultural College, Morley, Nr. Derby.  
 1930 –Studley, E. W., F.I.P.A., A.H.R.H.S., 60 Southbrook Road, Langstone, Havant, Hants. PO9 1RN.  
 1973 –Stuttard, A., N.D.H., 20 Cecil Road, Muswell Hill, London, N.10.  
 1969 –Styles, P., 52 Cowper Road, Ham Common, Kingston, Surrey.  
 1964 –Summerhayes, V. S., O.B.E., B.Sc., Red Gates, Manstone Lane, Sidmouth, Devon.  
 1969 –Summerwell, P. C., The Bungalow, St. Bridget Nurseries, Old Rydon Lane, Exeter, Devon, EX2 2TY.  
 1957 Sumner, R. J., 43 Churchfields Road, Beckenham, Kent.  
 1958 –Sutcliffe, T., Crosse Farm, Cheriton Bishop, Nr. Exeter, Devon.  
 1937 –Swift, H. W., c/o Fairchild Bot. Gdns., Miami, 44106, U.S.A.  
 1920 \*Syer, F. G., 90 Cromwell Avenue, Cheshunt, Herts.
- 1962 –Taber, D. W., 99 Holmwood Road, Cheam, Surrey.  
 1942 Tanner, Miss M. W. (See Mrs. Squire).  
 Tapsen, O. V., Police House, East Ord., Berwick-upon-Tweed.  
 1941 Tarver, Miss B. M. (See Mrs. Laking).  
 1934 Taylor, A. J., c/o Starke-Ayres, Mowbray, Cape Town, South Africa.  
 1939 Taylor, G. E., 244 Sandycombe Road, Kew Gardens, Surrey.  
 1971 –Taylor, Sir George, D.Sc., F.R.S., F.R.S.E., F.L.S., V.M.H., Belhaven House, Dunbar, East Lothian.  
 1953 Taylor, H., The Mooring, Station Road, Invergowrie, Dundee.  
 1933 \*Taylor, Hubert, M.B.E., A.H.R.H.S., N.D.H., 8 Cotterill Road, Surbiton, Surrey.  
 1936 \*Taylor, J. C., Ontario Agric. College, Guelph, Ontario, Canada  
 1961 Taylor, Miss J. L. (See Mrs. B. Humphrey).  
 1947 –Taylor, J. O., N.D.H.(N.Z.), 2 Western Terrace, Christchurch 2, N. Zealand.  
 1940 Taylor, Miss R. (See Mrs. C. M. Jackson).  
 1969 Taylor, T. M.  
 1929 Teal, A. G., c/o Parks Dept., Town Hall, Merton and Morden, Surrey.  
 1953 –Tebby, P. A. C., A.S., 28 Fourth Avenue, Chelmsford, Essex, CM1 4HA.  
 1948 Templeton, J. G., c/o Com. War Graves Comm. (Caen Area), 106 Rue de Thurey, Fleury-sur-Orne, Par Caen (Calvades), France.  
 1957 –Tennakoon, S. B., Botanical Gardens, Hakgala, Central Province, Ceylon.  
 1961 –Thames, B. G., 102 Wembdon Road, Bridgwater, Somerset.  
 1963 Theron, M., Manager of Parks Dept., Box 4, Alberton, South Africa.  
 1903 Thomas, Ernest, 1514 Chestnut Street, Philadelphia, Pa., U.S.A.

- 1911 \*Thomas, H., Grange, Buccleuch Street, Innerleithen, Peeblesshire, Scotland.  
 1946 Thomas, J., Parks and Reserves Dept., Town Hall, Townsville, N. Queensland.  
 1958 Thomas, R. G., Horticulturist, Caneal Bay Plantation, Virgin Islands Nat. Park,  
 St. John, U.S.V.I.  
 1944 \*Thompson, Miss E. K. G. (See Mrs. McCulloch).  
 1948 Thompson, G. D., 147 Beacon Lane, Whipton, Exeter, Devon.  
 1928 Thornicroft, I. V., Tinderbox, Blackman's Bay, Tasmania, 7152.  
 1964 Tickner, Miss L. (See Mrs. Gatrell).  
 1968 -Tietze, Miss, P.C., 41 Caxton Road, Otley, Yorkshire LS21 3LL.  
 1955 -Till, B. W., Dir. of Parks and Rec., Kempton Park Town Council, P.O. Box 13,  
 Kempton Park, Transvaal, South Africa.  
 1949 Till, J. R., Knight Hill House, Padiham, Burnley, Lancs.  
 1915 Timmers, A., "Brambles," Hailey Witney, Oxon.  
 1946 -Tindall, H. D., M.B.E., M.Sc., M.I.Biol., N.D.H., F.L.S., c/o National College  
 of Agric. Engineering, Silsoe, Bedfordshire.  
 1960 Toft, K G., 2 Westlecot Road, Swindon, Wilts.  
 1959 Tomlinson, D., Dip.Arb., 83 Blackstock Road, Stoke Newington, N.4.  
 1959 -Tomlinson, M. J., 20 St. Andrews Road, Southsea, Hants.  
 1954 Towle, P., c/o Parks Dept., Nottingham.  
 1967 -Townsend, D. H. W., 6 Manor Road, East Grinstead, Sussex.  
 1955 -Tregear, J. P., West Bank, 32 Southampton Road, Lymington, Hants., SO4 9GG.  
 1927 \*Trevaskis, P., S., F.A.I.P.A., Macclesfield Road, Avonsleigh, VIC 3159, Australia.  
 1972 Trevan, D. J., Flat 2, Daisybank Farm, Holmes Chapel Road, Lower Withington,  
 Nr. Macclesfield, Cheshire.  
 1964 Trewinnard, R., 45 Laburnum Road, Cumbernauld, Glasgow.  
 1946 -Trower, Miss S., Little Crown, Ewhurst, Surrey.  
 1936 \*Truman Fossum, M., 1145-19th St., N.W., Suite 415, Washington, D.C., 20036,  
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 1970 -Tuck, J., 155 Muirside Avenue, Kirkintilloch, Dunbartonshire.  
 1969 Tuck, Mrs. J., ditto.  
 1912 \*Tucker, W. H., N.D.H., Sancroft Manor, Laxfield, Woodbridge, Suffolk.  
 1946 Tucker, Mrs. R. C. (Miss J. Sampson), 21 York Street, Sandy Bay, Hobart,  
 Tasmania, 7005, Australia.  
 Tumsey, R. H., Old Northern Road, P.O. Box 1, Dural, N.S.W. 2158, Australia.  
 1949 -Turley, A. G., 23 St. Paul's Close, Hounslow West, Middlesex, TW3 3DE.  
 1949 -Turley, P. G., ditto.  
 1910 Turner, A., 8 Bridgwater Road, North Pethererton, Bridgwater, Somerset.  
 1965 Turner, A. P., c/o Johannesburg Parks Dept., Johannesburg, South Africa.  
 1936 \*Turner, J. H., F.L.S., "Cradock," 70 Fairfield Rd., Winchester, Hants. SO22 6SG.  
 1960 Turton, K. J., 190 Woulton Road, Liverpool 19.  
 1948 Tweedale, F., Dep. Dir., Parks Dept., Newcastle-upon-Tyne.  
 1963 -Tyas, M., 54 Edgbaston Park Road, Birmingham B15 2RT.  
 1956 -Tyte, J. S., 22 Woodhall Close, Downend, Bristol, BS16 6AJ.  
 1926 Vallance, J. C. S., 12411 Feldon Street, Silver Spring, Maryland, U.S.A.  
 1938 Van Rynveld, C. C., 808 Old Main Road, Cowies Hill, Pinetown, Natal.  
 1961 -Van der Breggan, J. G., Burgess Park, 290 Jacob Mare Street, Pretoria, S.A.  
 1934 \*Vanson, G. H. C., The Lodge, Bradley Woods, Grimby, Lincs.  
 1920 \*Vardy, M., "Sandhill," Middleton Lane, Middleton St. George, Darlington,  
 Co. Durham.  
 1927 Verdoorn, Miss Inez, Division of Botany, Pretoria, Transvaal, South Africa.  
 1929 Viale, Secundo, c/o La Mortola, Ventimiglia, Italy.  
 1935 Viale, Terzo, c/o La Mortola, Ventimiglia, Italy.  
 1956 Vickers, F., East Park Lodge, Corporation Park, East Park Road, Blackburn.  
 1946 \*Vile, K. M., 37 Station Road, Great Bowden, Market Harborough, Leics.  
 1958 Vogt, A., Gartenbau, Zollerstrasse, Erlenbach-Zurich, Switzerland.  
 1966 -Waddell, D., The Bungalow, Elmwood College, Cupar, Fife, KY15 4HY.  
 1946 -Wakefield, Mrs. E. M. (Miss Moss-Holland), 13/2 Wester Drylaw Row, Edin-  
 burgh EH4 2SF.  
 1934 -Walby, A. P. S., Cutteslowe Park, Summertown, Oxford.

- 1902 Waldenburg, N., Alnarps, Tradgardsskola, Nr. Akarp, Sweden.  
 1937 -Walker, W. F., N.D.H., F.L.S., Chief Hort., Dept. of Agric., G.P.O. Box 192B, Hobart, Tasmania.  
 1947 Wall, R. G., M.B.E., N.D.H., Dep. Reg. Dir., Commonwealth Graves Commission, Northern Region, Place Marechal du Foch, 62-Arras, France.  
 1928 \*Wallace, Mrs. G. B. (Duke), M.Sc., 31 Dukehaugh, Peebles, Peeblesshire.  
 1944 -Waller, Mrs. H. (Shallcross), Burnt House Farm, Chartham, Nr. Canterbury, Kent.  
 1968 -Walshaw, D., 1b Priory Road, Kew, Richmond, Surrey.  
 1921 \*Walters, E. A., Northwood Presteigne, Radnorshire, North Wales.  
 1964 Walters, Miss S. K. (See Mrs. Low).  
 1947 -Ward, J., East Park Lodge, Saltwell Park, Gateshead, 9, Co. Durham.  
 1963 -Ward, R. C., 254A Kew Road, Kew, Richmond, Surrey.  
 1952 Ward, W. B., Chief Hort., Hodges Gardens, Highway 171, Many, Louisiana, Canada.  
 1920 Wareham, Miss E. (See Mrs. Finch).  
 1922 \*Warner, Miss Audrey (See Mrs. Joy).  
 1970 -Warris, Mrs. P., Maplewood, Heatherlands Road, Chilworth, Southampton, SO1 7JR.  
 1937 -Wass, B. B., 87 Berkeley Avenue, Reading, Berkshire, RHL 6HS.  
 1937 \*Watson, D. P., B.S.A., M.Sc.(Lond.), Ph.D., Univ. of Hawaii, Dept. of Hort., 3190 Maile Way, Room 102, Honolulu, Hawaii 96822.  
 1954 -Watson, G., c/o Col. and Asian Affairs, 61 Sower Street, City Centre, Johannesburg, South Africa.  
 1949 Watson, J., City of York Parks Dept., Yorkshire.  
 1923 \*Watson, J. W., A.H.R.H.S., 14 Hollywell Road, Aylestone, Leicester.  
 1922 Watson, Miss K. (See Mrs. Chambers).  
 1971 -Watts, G. R., 124 Ingrave Road, Brentwood, Essex.  
 1948 -Waumsley, N., 25 Manor Gardens, Shepshed, Loughborough, Leics.  
 1908 \*Weber, A., Niedershausen, Oberlahnkries, Germany.  
 1968 -Webster, A., 2 Halstead Walk, Allington Farm Estate, Maidstone, Kent.  
 1953 Weighill, G. C., Parks and Cemeteries Dept., Exeter, Devon.  
 1968 Weir, A. M., 34 Edmonton Avenue, Howden South, Livingston, West Lothian, Scotland.  
 1946 \*Wells, Miss L. M., N.D.H. (See Mrs. Wren).  
 1936 -Wells, D. V., A.H.R.H.S., 23 Meadow Close, Ruislip, Middlesex.  
 1938 Werder, H. A., 31 Rue Racine, Montrouge (Seine), France.  
 1943 \*Werner, H. F., Myrtenhof Farm, P.O. Berlin 5660, South Africa.  
 1944 Werner, Mrs. M. (Miss M. Speake), ditto.  
 1948 \*Western, Miss P. (See Mrs. Himson).  
 1949 -Wharton, K., 13 Manor Road, Off Dewsbury Road, Wakefield, Yorkshire.  
 1935 -Wheeler, G. F., N.D.H., West Lodge, Nunwell Park, Brading, I.O.W.  
 1929 Whibley, Mrs. (Miss C. Hillier), Aboyne, Southampton Road, Compton, Nr. Winchester, Hants.  
 1911 \*White, A. H. J., Elloughton Road, Brough, East Yorkshire.  
 1946 White, Miss J. M., Greenway House, Churston Ferres, South Devon.  
 1972 White, S. J., 222 Astwood Road, Rainbow Hill, Worcester.  
 1972 -Whitehead, J., Merrist Wood Agric. Coll., Worplesdon, Guildford, Surrey.  
 1962 -Whitehill, J. A. E., 40 Maxwell Terrace, Glengowrie, South Australia, 5044.  
 1966 -Whiting, Miss M. M., Roxburgh House, Cranbrook, Kent.  
 1969 -Wickham, R., "St. Anthony's," Glen O'Downs Nursery, Kilmacanogue, Bray, Co. Wicklow.  
 1932 Wilding, J. E., 11 Fern Street, Farnworth, Lancashire.  
 1940 Wildy, R. H., N.D.H., 21 Blythe Road, Maidstone, Kent.  
 1946 Wilford, Miss J. (See Mrs. G. James).  
 1955 -Wilkinson, I., Firestone Plantations Coy., Harbel, Liberia, West Africa.  
 1971 -Wilkinson, M., 53 Rosslyn Avenue, Barnes, London, S.W.13.  
 1947 Will, A. G. K., Agri. Officer. Entebbe H.Q., Nairobi, Kenya.  
 1946 Willett, E. J. S., 9 Linkway, Cleyhall Drive, Spalding, Lincolnshire.



- 1959 Williams, A. L., Teachers' Training College, Newton St. Lowe, Bath.  
 1946 Williams, Mrs. H. (Bird), Mount Pleasant, Eastbury, Newbury, Berkshire.  
 1937 -Williams, R. F., Westmead, Kingsland, Nr. Leominster, Herefordshire.  
 1974 -Williamson, P. J., N.D.H., 61b Highfield Road, Kettering, Northants.  
 1938 -Willis, H. H. S., 259 High Street, Uxbridge, Middlesex.  
 1947 -Wilmott, C. J., Dene Lodge, Saltwell Park, Gateshead 8, Co. Durham.  
 1936 Wilson, A. S., Govt. House Gardens, Bengal, India.  
 1966 -Wilson, P. E., 140 Oswald, Courtwood Lane, Croydon, CRO 9HE.  
 1972 -Wilton, S. A., 1b Priory Road, Kew, Richmond, Surrey.  
 1925 \*Wiltshire, T. W., 48 Nant Fawr Road, Cynecoed, Cardiff, Wales.  
 1942 Wincott, Mrs. (Miss M. H. Lancaster), The Gardens, Holkham Park, Wells-next-the-Sea, Norfolk.  
 1964 -Winter, J., c/o Nat. Bot. Gdns., Kirstenbosch, Newlands, C.P., South Africa.  
 1939 Wittwer, E. S., Supt., The Kings Park, Perth, 6005, Western Australia.  
 1938 Wolf, Lucien de, Marché au Fromage, 39 Wemmel, Belgium.  
 1919 \*Wood, Mrs. H. P. (Madan), Ladywell House, Vowchurch, Hereford.  
 1960 -Wood, A. T., Little Conifers, 423 Canterbury Road, Kennington, Ashford, Kent.  
 1967 Wood, C. P., Honister Place, Newton Aycliffe, Nr. Darlington, Co. Durham.  
 1970 -Wood, G. P., N.D.H., 49 Egerton Rd., Davenport, Stockport, Cheshire, SK3 8TQ.  
 1950 \*Wood, P. L. D., N.D.H., c/o Box 189, Salisbury, Southern Rhodesia.  
 1947 -Woodward, A., N.D.H., F.Inst.P.A.(Dip.), 275 Tudor Drive, Kingston-on-Thames, Surrey.  
 1923 Woodhouse, P. J. C., Queen's Park, Glasgow, S.2.  
 1963 -Woolliams, K. R., Box 758, Koloa, Kawai, Hawaii, 96756, U.S.A.  
 1967 -Wooton, Mrs. H., 6 Arlington Close, East Twickenham, Middlesex.  
 1954 Worraker, E. H. W., Tides Reach, Five Oak Green, Tonbridge, Kent.  
 1937 -Wray, E. C., 33 Alexandra Road, Watford, Herts.  
 1948 -Wray, E. V., F.L.S., Selwood, 14 Church Lane, Humberstone, Nr. Grimsby, Lincolnshire.  
 1946 \*Wren, Mrs. L. M., N.D.H. (Wells), 4 Newark Lane, Ripley, Surrey.  
 1933 \*Wright, F. H., 31 Elliot Road, Peterlee, Co. Durham.  
 1956 Wyatt, P. C., 8 College Road, Histon, Cambs.  
 1939 \*Wyndham, G. T. F., Perceval Lodge, Mattock Lane, Ealing, London, W.5.  
 Yarde, Miss E., West Farm, Coombe Keynes, Wareham, Dorset.  
 1926 \*Yashiroda, K., Tonosho-kyoku, Kagawa-ken, Japan.  
 1961 -Yates, G. J. E., N.D.H., Ashfield Lodge Farm, Bailes Lane, Normandy, Guildford, Surrey.  
 1968 Yong-Fann-Chin, The Istana, Singapore, Malaysia.  
 1948 -Young, P., The Lodge, Cheam Park, Cheam, Surrey.  
 1971 Young, P. C. B., Flamingo Beech Club, Apartado 13, Santa Cruz, Guanacaste, Costa Rica, C.A.  
 1933 \*Younger, R. W., A.H.R.H.S., Supt., Supt. House, Univ. B.G., Cambridge.  
 1915 \*Yuill, E., 35 Askham Lane, Acomb, York.  
 1939 \*Ziedenburg, D. C., G.B.G., "Mikveh Israel," Poste-Holon, Israel.  
 1932 Zammitt, S. J., S., Govt. Farms & Agric. Organiser, Dept. of Agric., Government Farm, Ghammieri, Malta.  
 1931 \*Zwicky-Waber, K., Sonneblume, Hunibach, Nr. Thun, Switzerland.

We are anxious for the above list to be accurate. Please do not fail to advise the editor of any corrections, changes, or if we have missed qualifications or decorations.

