

THE JOURNAL OF THE KEW GUILD

Founded in 1893

The Association of members of the Kew staff past and present

Events of 1989

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**Royal Botanic Gardens
Kew**

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ROYAL BOTANIC GARDENS, KEW

THE KEW GUILD COMMITTEE 1989-90

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Badges and Emblems: S. J. Henchie

Honorary Auditors: J. R. Woodhams and M. A. Arnold-Gilliat

Students' Union Representatives: T. Sunderland and J. Runicles

EDITORIAL

The year of 1989 has seemed to be a year of clearing up for those engaged with horticulture in South East England. The ongoing work after the October 1987 'hurricane', followed by a record dry winter in 1988/89 and record hot dry summer, then severe gales in the autumn/winter 89/90 have put severe pressure on us all. Even the Kew Guild Committee members have been hard pressed to give of their voluntary time.

I hope Guild members will thoroughly read this Journal, and act on many of the suggestions and ideas therein. We welcome feedback otherwise the Journal will become just a series of annual reports. We need to hear from you about your career news, your retirement, your family news, and the other Kewites you have met in the past year or so. You will see that our Centenary Sub Committee are busy planning a memorable 1993 for you, and they would welcome your memorabilia, ideas and thoughts.

Regrettably, despite having agreed to try to attract advertisements, approaches have not been successful this year. Last year adverts raised nearly one fifth of printing costs. I have supplied an advert slip below, and invite your support in next year's Journal.

With tighter and tighter deadlines our particular thanks go to our printers for getting the Journal out in time for the Annual Dinner.

Keep in touch!

Richard C. Ward
Hon. Editor

NOTE: Due to late receipt of copy this year it was not possible to circulate proofs to contributors for checking. Sorry!

ADVERTISE IN YOUR JOURNAL

Suggested donation to "The Kew Guild" of £25 per fifth page, £100 whole page.

Just return this slip, with your donation and typed copy and any logo, and the Editor and printers will do the rest.

Send to Kew Guild Journal, Editor Richard Ward, c/o R.B.G. Kew, Richmond, Surrey. Your advertisement will reach 600 members and approximately 14 libraries!

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ERIC W. CURTIS

President 1989/90



Although he has spent much of his life in Scotland, Eric Curtis passed his formative years not far from Kew, in Acton and New Malden.

He showed an early interest in gardening but always had the aim of working abroad. Kew, then with its reputation as a training ground for posts in the colonial tropics, seemed a natural starting point. Reality was a little different. When he began as a "boy" it was still wartime. With a 6.30 early morning start "digs" were found nearby "suitable for a business gentleman" although the main "business" on hand in those early days was scrubbing pots!

He was called up for the R.A.F. in October 1945, and volunteered to go overseas — but later found that this was said to be the best way to ensure a U.K. posting. For two and a half years he was to help with demobilisation at so-called "Personnel Dispersal Centres". He maintained his interest and studies in horticulture and when the time came for his own "dispersal" he went, with the help of a government grant, to take the Scottish Diploma in Horticulture.

The next move was back to Kew and an eventual studentship from 1951-53 when time was served in the ferneries, tropical pits, temperate house pits and T-range. He was awarded the Dümmer Memorial Prize for his collection of British flora and was secretary of the British Botany Club in 1952. He also did a stint as secretary and then chairman of the Students' Association, the forerunner of the Students' Union.

Towards the end of his student days Lou Stenning, then Assistant Curator (Tropical), asked him to do some propagating back in the "trop pits". This eventually led to his becoming foreman. At that time the opportunity to stay at Kew was especially welcome as, for family reasons, he felt unable to go abroad. He became assistant editor of the Kew Guild Journal, with Ernest Nelmes, and eventually editor in 1955.

The following year the post of Curator at Glasgow Botanic Gardens was advertised and, although hardly "abroad" the idea of returning to Scotland appealed. He was assured by the convener of the City Parks and Botanic Gardens Committee that they would "make a good Glaswegian" of him. Looking through the Kew Guild Journal we find that Eric is the fourth Kewite to occupy the post.

The Gardens had an interesting layout and included the Kibble Palace, a large and elegant Victorian glasshouse. The University retained special rights dating from the foundation of the Gardens in 1817. There was a historic link with Kew since Sir William Hooker, as Regius Professor of Botany, had spent 20 years in Glasgow where he much influenced the early development of the Gardens before his move to Kew in 1841 as Director.

Funded entirely by the City, the Gardens were well used but general floral displays had taken precedence over the educational role of a true botanic garden. The Gardens had suffered during the war — when tomatoes were the main crop — and in the years immediately afterwards. However a programme of rebuilding the extensive glasshouses was already nearly completed. The job was therefore seen as an exciting challenge, and with the general injunction of the Director of Parks, George Garside, to "pull the Gardens round" he was left a free hand, although with limited resources.

He was pleased to find a fellow Kewite, Gerald Rodway, in charge of the orchids and keen to build up the collection. Gerald was to remain until his untimely death in 1985. This collection was one of the factors leading to the 14th World Orchid Conference being held in Glasgow in 1993. Other outstanding collections were the tree ferns, filmy ferns and the begonias. Close work with an amateur enthusiast has led to the formation of a trust to promote work on begonias in Glasgow.

Eric was especially keen to develop the educational role of the Gardens. He was soon involved in the training of apprentices in Glasgow Parks and this led to his being responsible for a training scheme for all parks staff for a number of years. The development of the collections and their informative display was seen as crucial, and many displays and exhibits on historical and conservation topics were mounted.

In 1987 the Trades House of Glasgow sponsored a joint expedition to Papua New Guinea between the Botanic Gardens and the Botany Department of the University. The objective was to collect orchids, ferns and begonias for future study, from forest areas which were being cleared of timber, and to make a photographic record. This was used for the theme of conservation and the tropical forest at an exhibition at the Glasgow Garden Festival in 1988. The expedition also resulted in the "twinning" of Glasgow with the Botanic Garden at Lae, and the Curator and Assistant Curator have both been over to work in the Gardens to gain experience.

Outside the Gardens Eric has played a part as a member of the Glasgow Natural History Society in editing the Glasgow Naturalist and, with an interest in building conservation, he has been an active member of the local conservation society.

He has always been fascinated by the Scottish countryside, and especially Argyll, where the family — Mary his wife, and two sons — are now rejuvenating an early 19th century cottage and garden.

ANNUAL GENERAL MEETING OF THE KEW GUILD

by **Michael Maunder**, Hon. Secretary

On Saturday, 9th September 1989, 36 member assembled in the Jodrell Lecture Theatre for the Annual General Meeting. The President, Mr. P. Maunder took the Chair, accompanied on the platform by Mrs. W. E. Worth and Mr. M. Sparrow.

Mr. Maunder welcomed everyone to the meeting and expressed his gratitude for their support. During a short opening address Mr. Maunder advised members of Ted Storey's recent stroke and expressed on behalf of the Guild his thanks to Bashir and Tina DiMahomed who gave so much professional advice to Ted when he served as Treasurer to the Guild.

The Secretary, Mrs. Worth, then read the names of those whose death had been known since the last meeting: C. G. W. Poulter (1928), A. W. C. Anderson (1926), J. R. Clarke, G. A. Hyland (1935) and J. Lawson (1927). Members observed a period of silence in their memory.

The Secretary notified the floor of the following members unable to attend through ill health, namely H. Taylor, W. E. Storey, H. G. Butcher, C. E. Armstrong, and Mrs. E. M. Wakefield. Cards were sent, these were duly signed by members at the evening soirée.

Apologies for absence were received from: Professor Prance, Mrs. M. P. Churcher, C. J. Mitchelmore, A. G. Burgess, W. T. Preston, Dr. L. E. Fellows, T. R. N. Lothian, D. W. Sayers, M. A. Arnold-Gilliat, A. G. Cook, K. R. Woolliams, J. B. Gaggini, W. Nelmes, K. F. Pearson, J. Sales, N. K. B. Robson, B. F. Pitcher, H. R. Cocker, Miss R. M. Bower, D. Hardman, R. I. Beyer, B. Phillips, H. Taylor, N. Prockter, S. Henchie, Dr. M. Y. Stant, J. L. Norris, P. A. Gooding, Mrs. E. M. Wakefield, H. G. Butcher.

The following members were in attendance: A. Woodward, F. H. Eul, D. Dawson, C. E. Cherry, J. Halhead, P. Maunder, Dr. W. A. Lord, D. Tomlinson, R. Adams, M. Clift, D. J. Breach, Ms L. Bustard, J. N. Walker, J. R. Woodhams, H. Sheldon, Miss G. E. Lofthouse, Miss M. R. Axton, Mrs. E. J. Cowley, D. S. MacGuffog, W. N. G. Gilmour, G. A. Pattison, R. C. Ward, M. J. Sands, K. R. Jones, Professor E. A. Bell, L. P. Barker, C. Hindmarch, H. J. Fliegner, G. H. Preston, S. W. Rawlings, Mrs. M. J. Ellis, Rev. H. Flower, E. W. Curtis, F. N. Hepper, Mrs. E. W. Worth, M. Maunder.

The Minutes of the A.G.M. of 1988 were adopted.

The Committee then reported as follows:

The Hon. Secretary, Mrs. Worth reported that the work of the Committee would be reported by the other officers but that mention should be made of the sub-committee that had been established to index the Journals of the previous decade for inclusion in the May 1991 Journal.

The George Brown Memorial Award had been given to Mr. J. R. Sealy, this was announced at the Dinner.

This had been a particularly busy year for the new Membership Secretary, Miss Louise Bustard, and her predecessor, Miss Eirene Smith, as they not only handled the transfer of membership procedure but also endeavoured to collect subscriptions that had fallen into arrears. Mrs. Worth reported that committees were always well attended, constructive and often hilarious. To all the officers of the Committee Mrs. Worth expressed her sincere thanks for making her time as Secretary so enjoyable and rewarding, her only regret was that her time in post should end with the sad news of Ted Storey's stroke.

The Events Officer's Report, Mr. D. Breach reported on the Annual Dinner held at Imperial College; he recorded the success of the evening along with a financial statement. Mr. Breach thanked all concerned for their help both at Kew and at Imperial College. The Chairman thanked Mr. and Mrs. Breach for all their hard work with regard to the dinner.

Wakehurst Guide Book, Mr. F. N. Hepper reported on the progress of the booklet; the text, although delayed, was now ready to go to press.

Treasurer's Report. On behalf of the Treasurer, Mr. W. E. Storey, Mrs. W. Worth presented a report on the Guild's finances. Tragically due to Ted's stroke leaving him speechless Mrs. Worth felt she could best express his thoughts on the Guild's finances by quoting paragraphs two and three of his report in the 1988 Journal (Volume 10, No. 93, p. 731). Mr. Storey was still of the opinion that subscriptions should be raised and had proposed £10 for ordinary members, £7 for students and £15 for corporate members. The opportunity was taken to open the floor to discussion, it was moved and seconded by Messrs. Gilmour and MacGuffog that at the earliest appropriate time available to the Guild Committee the following charges be adopted:

- £10.00 Ordinary Membership
- £15.00 Corporate Membership
- £ 5.00 Student Membership

Referring to the legacy left by the late George Catt of Australia, Mrs. Worth reported that the judgement had gone against the Guild which as a result had only received £7,673.00. The late Tom Arnold's bequest had also been contested, as a result £2,867.00 had been invested.

Shares originally worth £6,000 in high yield accounts were by December 31st 1987 (after the "Crash") worth £26,000. It will rest with the new Treasurer to decide future investment policy, particularly with reference to the Charities Fund.

Editor's Report, Mr. R. Ward reported on the current position of the Journal and commented that further thought should be given to both the format and content by the Guild Committee. The Chairman on behalf of the members thanked Mr. Ward for his continuing hard work.

Membership Secretary's Report, Miss L. Bustard outlined the present membership position, expressing concern over the significant numbers of lapsed members. Miss Bustard reported removing names from the membership list, this provoked comment from the floor, Mr. N. Gilmour believed that the names of all Kewites living should be listed irrespective of membership status. Considerable debate was engendered, it was agreed that this should be discussed at the first possible moment. In addition the possibility of asking Life Members to make additional financial contributions i.e. paying for the Journal, should be discussed by the Committee.

Award Scheme Report, Mr. P. Maunder reported a successful year with nine recipients of Guild Awards.

The Arnold Bequest will provide circa £300.00 per annum to be awarded to students to aid a study relating to propagation or nursery work.

Mr. Maunder confirmed that a recent appeal by himself, H. Taylor, Miss L. Bustard and G. Morgan had raised over £530.00. He thanked his fellow Award Scheme Committee Members for their hard work and support.

Centenary Sub-Committee Report, Mr. M. J. Sands reported that the committee had in hand a number of potential projects to celebrate the Guild's centenary.

Students Prize Day, Mrs. Worth reported on a successful award ceremony, the opening speech by Professor David Bellamy was particularly appropriate, while the diplomas and prizes were given by Mrs. Bellamy. Mr. M. Maunder, as acting head for the School of Horticulture, chaired the afternoon ceremony. Mrs. Worth reported that she was particularly gratified by the number of lady students attaining Honours, five out of a total of seven.

Possible change of date for the A.G.M., after considerable debate it was decided to retain the traditional second Saturday in September, this coinciding with the student prize giving so allowing members to view any exhibitions of student work.

Then followed the *Election of Officers:*

Retiring Members of the Committee, and Auditor, Mr. P. Maunder thanked the retiring members of the committee for their hard work and support for the Guild.

All officers nominated by the Committee were unanimously accepted on bloc.

Under *Any Other Business*, members thanked Mrs. Worth for service to the Guild as Secretary and for her impeccable organisation.

There then followed the *Inauguration of the new President, Mr. E. W. Curtis*. On accepting the badge of office he thanked the Guild for the honour and hoped he would serve the Guild to the best of his abilities.

The date of the next A.G.M. was agreed to be on the first Saturday after prize giving, provisionally the 8th of September 1990.

The meeting closed at 4.40 p.m., members adjourned to the Common Room for tea, regrouping later to attend two short talks on Guild sponsored study trips, namely Tim Upson talking on the Canary Islands and Carolin Gohler on the Iberian Peninsula.

PRESIDENT'S REPORT 1988-1989 TO A.G.M.

by Peter Maunder

I am particularly gratified and honoured to have been elected President of the Guild, and to have followed Noel Lothian. It seems so very appropriate that remembering Noel's presidency and the Bic-centennial celebrations, to note that Australia's first colonisers sailed from Portsmouth, my home area. Noel will be pleased to learn that it is generally, but by no means universally, acknowledged that the biggest rogues were left on the Quay side!

This year has seen the Guild assailed by alternating peaks and troughs, yet thanks to efforts of the Guild's officers and committee the position at the year's end is one of considerable achievement. In late spring the financial position was causing increasing concern, this being aggravated in part by the increasing cost of the Journal. The membership subscriptions were not all they should have been and research showed that over two hundred member's subscriptions were not at the designated rate. The position of Life Members, of whom there are approximately 90, was also in need of review. The above problems of subscription income have been largely solved by Louise Bustard, the Membership Secretary. An appeal by Hubert Taylor on behalf of the Guild to Life Members proved highly rewarding. The overall financial status was assured when members agreed to subscription increases at the A.G.M. In addition advertising revenue and strict editorial control have regulated the final cost of the Journal.

The operational success of the Guild is dependent on a nucleus of dedicated officers who ensure continuity. This year we have been sadly deprived of the support and guidance of Ted Storey, Treasurer to the Guild; we look forward to Ted making a lasting and marked recovery. The Guild's second major loss was the retirement of Winifred Worth, Secretary to the Guild, a veritable compendium of matters relating to procedure and Guild history. The Guild will miss both of these dedicated officers. I have been especially indebted to both of them over the years. We are particularly fortunate in finding eager and competent successors in Rebecca Bower, new Treasurer, and Mike Maunder and Mark Sparrow who will share the Secretary's responsibilities. On behalf of the Guild I offer my thanks and best wishes to them all.

In 1989 we saw the completion and acceptance of two bequests to the Guild, namely the Tom Arnold Bursary Fund and the George Catt Legacy. Fund raising this year has reached a commendable level and has been boosted by profits from the Annual Dinner and the A.G.M. soirée. In addition to matters financial we have seen the Guild tie undergo redesign under the guidance of Hugh Flower, and Martin Sands has arranged for the Grant of Arms document to be restored.

The Annual Dinner in May gave members an opportunity to welcome Kew's new Director. We were all delighted to have Professor Ghillian Prance and Mrs. Anne Prance as our guests, together with Sir Edward and Lady Howard representing the Royal Gardeners Benevolent Society. The George Brown Memorial Award went to Mr. J. R. Sealy.

The social gathering that followed the A.G.M. was well attended, and it was particularly pleasing as on other evenings for the "old" Kewites to be joined by members of the new student intake.

The Wakehurst booklet which is so essential to the Guild's finances has been up-dated and will be available in late 1990. Our thanks go to Nigel Hepper and Tony Schilling for their hard work and support for the Guild. I have been especially appreciative of the support I have received from Ian Beyer and Ken Burras who kindly represented the Guild in my absence. The support given by all the officers and members of the committee have made my year of office an enjoyable and memorable one. To all members and officers I record my appreciative thanks.

Peter Maunder

REPORT OF THE 1989 ANNUAL DINNER

by D. J. Breach, Events Officer

The Annual Dinner — the major social occasion in the Kew Guild calendar, when Kewites and their guests gather over a meal and a glass of wine to renew acquaintances, discuss experiences and to generally enjoy each others company — took place on Wednesday, 24th May 1989 in the Sherfield Suite at The Imperial College of Science and Technology. The 124 diners were received by the President, Peter Maunder, and a general rapport was quickly established and remained throughout the dinner.

After proposing the loyal toast the Toastmaster proposed the toast to the President who responded and proceeded to propose the toast to the Kew Guild, the response to which was given by Professor Ghillean T. Prance (Director, Royal Botanic Gardens, Kew). The toast to 'Our Guests' was proposed by Neil Wallsgrove (Students' Union) and responded to by Sir Edward Howard, Bt., G.B.E., D.Sc. Ian Beyer, (Vice President of the Kew Guild) proposed the toast to 'Absent Friends'.

The Guest Speakers were Sir Edward Howard and Professor Prance. Sir Edward gave a humorous account of some aspects of his public life and duties and of his appreciation of and his interest in horticulture and Kew Gardens. In particular he spoke briefly of the work of the Gardeners Royal Benevolent Society of which he is the Chairman. In closing he congratulated the Director and those concerned on attaining a Gold Medal Award at the Chelsea Flower Show.

Professor Prance thanked Sir Edward for his words of congratulation and then proceeded to enlighten and stimulate the assembled company by suggesting some entrepreneurial paths along which those who manage and operate the Gardens may find themselves travelling in the future — all good entertaining stuff. Such an exposition made those past, tediously long, grey days of winter spent picking over thousands of geranium cuttings, in dark damp 'pits', seem light years away! Yet, was it really that long ago?

Happily the Overseas Kewites were well represented in the person of Gilbert Briscoe, President of the South African I.P.R.A., John Winter, Head of Horticulture, Kirstenbosch, together with Errol Scarr, Durban Parks Department. A warm welcome was extended to Miss Susan Weiler, a guest from Philadelphia, U.S.A.

Once again the students organised a very successful raffle which raised the princely sum of £119, which they apportioned between the Students' Union funds and the Award Scheme.

Our thanks to Tarja Ravenhall who created the floral decorations with such artistry, and which were purchased by diners at the end of the evening. Our thanks and appreciation also to the staff of the Imperial College who continue to cater for our needs in their usual professional manner and to Richard Ward who once again guided us through the evening's proceedings as M.C. in his own inimitable style.

Finally the Guild Committee look forward to meeting you together with your guests at next year's dinner.

N.B. While the level of attendances at our Annual Dinners remains pretty stable, (apart from the exceptional attendance of 174 diners in 1988), I would encourage all Guild Members to attend the Annual Dinner, if at all possible; thereby demonstrating their support of their Guild and their President. The number of members attending also governs the level of financial viability of the Dinner and is reflected in the price of the tickets.

KEW GUILD AWARD SCHEME REPORT

Peter Maunder

The committee organised by the Secretary, Jenny Evans, has been well served by David Field, Louise Bustard, Jane Runicles and Russell Forbes. The presence of Ted Storey has been sadly missed at recent meetings, his guidance on funding and perhaps more importantly his good humour and common sense were greatly valued by committee members for many years. The Award Scheme is now very fortunate in having Rebecca Bower join the committee so ensuring we continue to make the maximum usage of our funds.

This year has seen new sources of income become available; the Tom Arnold Bursary is now available allowing the committee £300.00 to help students follow studies relating to nursery or propagation work. The 1988/89 Appeal organised as a joint venture by four Kewites finally raised over £700, which will produce sufficient interest to bolster the main award scheme.

The evening of the A.G.M. once again proved a very enjoyable and highly successful event. An evening tour of the refurbished Palm House lead by Hans Fliegner was particularly enjoyable. This was followed by a buffet supper in the Banks Building. The day of the A.G.M. coincided with the arrival of the new student intake and the Awards Committee extended an invitation to each new student as guests for the evening. Refreshments in the spacious new building were superb, thanks to Isabelle Maunder, David Field, Jenny Evans, Kathryn and Graham Burgess and a large support team. The overall result was not only a highly enjoyable evening, but also a benefit of over £180 to the Award Scheme.

In 1989 the Committee made awards to nine applicants; the successful applicants are listed below. It is hoped that the fruits of their travels and studies will be relayed to members via the Journal.

Susyn Andrews (Staff, Herbarium)	Netherlands
David Barnes (Student)	Canada
Carolyn Gohler (Student)	France/Spain
Simon Goodenough (Ventnor Botanic Garden)	New Zealand
Peter Hollett (Student)	Florida
John Lanyon (Student)	Eire
Lorraine Perrins (Student)	Florida
Sue Spielberg (Student)	France
Richard Turnell (Ex-student)	S.E. Asia

Award Scheme Appeal 1988-90

This most recent appeal to raise funds to meet the increasing number of applications was organised by four somewhat diverse (a polite way of putting it) Guild Members. These Kewites, whose close links with Kew represent a period of over 50 years, have been well supported by fellow Kewites in their fund raising efforts. Louise Bustard (1981) is a present member of staff, Hubert Taylor (1933) the eldest and most venerable, and falling somewhere between are Gerald Morgan (1973) and Peter Maunder (1954).

Their combined efforts raised well over £700.00, which in reality means that the Award Scheme Committee can now make one additional award of a worthwhile dimension each year.

I would like to thank my three fellow fund raisers for their hard work, and I would particularly like to thank those listed below, both Kewites and non-Kewites, who so generously supported the appeal:

Mr. and Mrs. H. A. Bowles	Mr. and Mrs. B. A. Nash	Mr. and Mrs. S. W. Rawlings
Mr. A. P. Dunball	Dr. and Mrs. K. H. Nixon	Mr. and Mrs. M. S. F. Roberts
Mr. E. W. B. Gale	Mr. J. Ottaway	Mr. and Mrs. B. R. Savage
Mr. I. T. Gayton	Mr. M. Park	Mr. and Mrs. J. R. Sealy
Mr. and Mrs. W. N. G. Gilmour	Mr. L. A. Pemberton	Dr. M. Y. Stant
The Havant Probus Club	Mr. H. C. P. Rattenbury	Messrs. A. G. and P. G. Turley
Mr. and Mrs. D. S. MacGuffog		

Members will be pleased to learn that in 1990 it has been possible to increase the sum available for awards, thanks to the generosity and support extended to the Awards Committee.

MESSAGE FROM THE MEMBERSHIP SECRETARY

In September 1989 the Annual General Meeting voted to raise the subscriptions. An Ordinary Membership is now £10.00, a Student membership is £5.00 and a Corporate membership is £15.00. This is to cover the spiralling cost of postage and administration.

A letter from Hubert Taylor to all Life Members suggesting that they may like to make a donation to the Guild was met by a wonderfully generous response. Almost all Life Members have written to me, many congratulating the Guild on its work and many telling of how they look forward each year to the Journal which keeps them in touch with Kew and many of their old friends.

I would like to say thank you to all those members who paid their new subscription fee so promptly. Thank you to those members who included letters detailing their working lives since leaving Kew — keep them coming please. We rely on members to keep us informed about other Kewites, sadly sometimes in the form of an obituary. So please write and tell us what you are doing.

I want to say a very special thank you to all those Life Members, many of whom are retired, who have made such generous donations to the Kew Guild.

Keep in touch.

Louise Bustard

KEW GUILD COMMITTEE MEETINGS

The Committee met five times in 1989 and amongst far reaching discussions were:

George Brown Award, Wakehurst Place Booklet, Journal costs, Membership costs, students and the Guild, Guild regalia, legacies to the Guild, Indexing Volume 10 of the Journal, Guild Centenary, Guild Press publicity for potential new members.

KEW GUILD RULES

Members should note that in the interests of economy the Rules of the Kew Guild will no longer be printed biannually as in the past. A copy of the rules will be provided by the Membership Secretary to new members; others may obtain copies on request, at cost, to the Membership Secretary.

KEW GUILD SUBSCRIPTIONS

Subscriptions as from 1st January 1990 are:

£5.00 Students, £10.00 Ordinary, £15.00 Corporate. Please check that you have changed your Standing Order — Journals are not sent to those who fail to up-date!

PRESENTATION OF THE KEW DIPLOMAS AND PRIZES 1989 (Course 24)

Michael Maunder, Acting Supervisor of Studies, introduced Professor David Bellamy for the presentation of the Kew Diplomas and Prizes. Professor Bellamy announced that this was the most important thing he had ever been asked to do. And only the second time he had worn a suit — the first being his appearance on the Wogan Show! He put on record that he had once applied for a student place at Kew and had been refused!

He gave a moving talk, discussing the problems of the world (moving the deckchairs around whilst the Titanic is sinking) and took us on an imaginary birds-eye view journey of horticultural disasters to New Zealand.

Professor Bellamy concluded by telling outgoing students that, as masters of their craft, they could now help rebuild the world.



Students Prizegiving 1989 — Course 24. *Front Row left to right:* Professor David Bellamy, Professor Ghillean Prance (Director), Mrs. Bellamy, Michael Maunder.

THE KEW DIPLOMA

Honours

Ms C. Buchanan
Mrs. E. Jackson
Ms J. Jones
Ms S. Leadbetter

Ms B. Rothschild
T. Upson
N. Wallsgrove

Credit

S. Ambrose
P. Blackmore
G. Dear
G. Leeson

M. Long
Ms J. van der Meer
Ms J. Worby

International Certificate

P. Grijelmo
Ms K. Whyte

E. Wolniak

PRIZES

The Ernest Thornton-Smith Travelling Scholarship Ms B. Rothschild
Henry Idris Mathews Scholarship R. Baines

Hoselock-ASL Prize	Ms C. Göhler
G. C. Johnson Memorial Prize	T. Upson
Kingdon-Ward Prize	T. Upson
Landsman Bookshop Prize	G. Leeson
Sir Joseph Hooker Prize	B. Little
John Gilbert Prize	Ms G. Pape
Matilda Smith Memorial Prize	T. Upson
Dummer Memorial Prize	Ms B. Rothschild
Proudlock Prize	Mrs. E. Jackson
Prize for best vegetable plot	Mrs. E. Jackson
Kew Guild Individual Study Prize	Ms S. Leadbetter
The Metcalfe Cup	Ms C. Buchanan
C. P. Raffill Prize	T. Upson
Professor Keith Jones Cup	C. Heron
George Brown Prize	M. Long, G. Dear, J. Anderson
Mutual Improvement Society's Prize	Ms S. Spielberg, R. Baines
Lecturer's Prize	Ms J. van der Meer
Photographic Society Prize	T. Upson
Plant Identification Tests	T. Upson
Rotary Club of Kew Gardens Prize	T. Upson
Students' Union Life Membership	N. Wallsgrove, Mrs. E. Jackson, S. Ambrose, G. Dear, G. Leeson

TITLES OF MANAGEMENT PROJECTS (Course 24)

S. Ambrose	The Marketing of British Horticulture.
P. Blackmore	The Principles of Design behind the Small Water Garden.
Ms C. Buchanan	An Investigation into the Aims, Objectives, Organisation and Functions of Springfields Gardens, with special reference to Communication and Management.
G. Dear	An Investigation into the Aims, Objectives, Organisation and Functions of Oxford University Botanic Gardens with special reference to Interpretation.
Mrs. E. Jackson	Kew Marketing.
Ms. J. Jones	The Introduction of Ecological Displays at the Royal Botanic Gardens, Kew.
Ms S. Leadbetter	A Study of the Major Principles of Design Involved in the Role of Tree Screens in the Realm of the Landscape.
G. Leeson	A Study of the Major Principles Involved in the Role of Interior Planting with Indoor Leisure Facilities.
M. Long	An Investigation into the Aims, Objectives, Organisation and Function of the Hilliers Arboretum with special reference to Communication and Management.
Ms J. van der Meer	Restoration, Maintenance and Use of Historic Parks and Gardens: Embley Park School Gardens.
Ms B. Rothschild	The Restoration, Maintenance and Future Management of the South Terrace at Waddesdon Manor, Aylesbury, Bucks.
T. Upson	The Present and Future Use of Biological Control at the Royal Botanic Gardens, Kew.

N. Wallsgrove

An Investigation into the Aims, Objectives, Organisation and Functions of Bedgebury Pinetum with special reference to Communication and Management.

Ms J. Worby

Marketing British Horticultural Organic Produce.

COURSE 27



Mark Brent



Michael Egan



Andrew Fuller



David Gardner



Antony Herwerth



Sally Kelly



Jane Lawson



Amanda Lind



Tim Pendlebury



Jeffrey Stephenson



Mark Spencer



Ian Turner



Yongdan Wei



Stephanie Morris



Xiping Niu

THE KEW STUDENTS' UNION ANNUAL REPORT

by Carmel Gibbons, President

This year, the Students' Union Committee consists of:

President	Carmel Gibbons
Chairman	Tom Parker
Treasurer	James McMillan
Social Secretaries	Peter Hollett Rachel Fisher
Fund Raiser	Lorraine Perrins
Sports Secretary	Terry Sunderland Mark Brent
First Year Representative	Amanda Lind
Second Year Representative	Ian Kirby
Third Year Representative	John Lanyon
GMBATU Representative	Madeleine Groves

The Students' Union has traditionally played a rôle in the sports and social scene at Kew. This year, the emphasis of our work has changed, and we have become more involved in the academic changes that the course is currently undergoing.

A Student Committee has been set up which includes three representatives from the Students' Union. They meet once a month to discuss any changes that have been made to the course. This committee has a dual rôle: to involve students more in the Diploma course, and to improve communications between the students, lecturers, garden supervisors and the management at Kew.

The Students' Union also has two representatives on the Consultative Committee which consists of people from the horticultural industry and acts as a steering committee for the Diploma course.

These committees have created a lot of extra work, particularly for the three year representatives, John Lanyon, Ian Kirby and Amanda Lind who have been doing an excellent job on the Student Committee. However, we considered this to be a very important aspect of our work and it is hoped that the changes that are happening now will benefit the future generations of Kew Diploma students throughout the 1990's and beyond.

Fund raising is a continual part of the work of the Union. Lorraine Perrins has played a key rôle here and has done a lot of work selling T-shirts and sweat shirts to staff and students at Kew. Thanks to Ken Bailey and Madeleine Groves, we now have two glamorous designs or offer. James McMillan the treasurer keeps a tight rein on Union funds and in doing so has made himself very popular with our local bank manager!

Terry Sunderland has extended the work of the Sports Secretary and has set up the Kew Outdoor Club. They have already had two successful weekend trips away, and there are more in the pipeline. We are also hoping to organise a weekend in Yorkshire in the spring to meet up with the students on the Edinburgh Diploma course.

Finally, thanks to everyone at Kew who has supported us throughout the year, and without whom our work would be impossible.

STUDENTS' UNION SPORTS REPORT

by Terry Sunderland, Sports Secretary

The start of the college year saw the new Diploma students run the traditional Clog and Apron Race. As ever, a tough race with Ian Turner taking the coveted trophy, closely followed by David Gardner and Jane Lawson, the first lady home.

The Round the Gardens Race saw a magnificent time set by the winner, Nigel Rothwel who completed the course in 14.19 mins. Brendan Little and Rufus Bellamy were second and third respectively with Jane Lawson again taking the first lady home prize.

The new football season began with the annual staff v students match (or mis-match!) with the student team winning 5-1. John Anderson opened the scoring early in the first half with later goals coming from Mark Brent, David Gardner, Richard Baines and again, John Anderson. Ricky Weekly scored a consolation goal for the staff late in the game.

However, the Kew v Wisley match caused the most excitement. Wisley almost lived up to their pre-match confidence scoring twice in the first ten minutes! Kew soon regained their composure, however, and hit back with a goal from Peter O'Toole followed by a 30 yard strike from Oxford graduate Stuart Miskin on the stroke of half-time. A flurry of goals in the second half with Pete Gasson getting two and Rob Bell scoring near the end of the afternoon. We look forward to the rematch on February 25th!

Due to the demand for outdoor recreation the Kew Outdoor Club was set up last September. To date, we have had two very successful weekend trips taking in pursuits such as climbing, canoeing, caving, walking, orienteering and horse riding. Many other weekend trips are planned, and in April a team from the Club will enter the Three Peaks Race, climbing Scar Fell, Ben Nevis and Snowdon in the same weekend. We shall raise as much sponsorship as possible, donating the money to the Margaret Mee Rainforest Trust.

The new year saw the initiation of a badminton ladder which will lead to a presentation in July and arrangements are being made for the Kew-Wisley Road Race in May.

The Students' Union would like to thank all the people who have taken part in the organised events this year and hope the success of these will continue into 1990.



Ian Leese, Acting Supervisor of Studies, pictured with some Second Year students outside the new School of Horticulture Building, formerly Museum No. 2. *(Photo: Courtesy of Horticulture Week)*

KEW GUILD ARCHIVES

In preparation for the Guild's Centenary, we are compiling a list of all our archives. All the Guild's papers, photographs etc. in Kew's Library and Archives have been recorded, and the papers held by present Committee members. If you have any more, or know where papers might be, please let Sylvia FitzGerald know, at Kew's Library and Archives.

THE KEW MEDAL AWARDS 1989



The Kew Medal is awarded annually to those whose achievements, contributions or services to the gardens at Kew and Wakehurst Place are considered of outstanding merit and deserving of special honour.

The medal, struck in silver-gilt, was first awarded in 1980, and is inscribed "**FOR MERIT**". The face design illustrates the Palm House (1840 to 1844) with a spray of Oak (*Quercus robur*) and Para Rubber (*Hevea brasiliensis*) leaves above representing both the knowledge and work of the staff of the Royal Botanic Gardens.

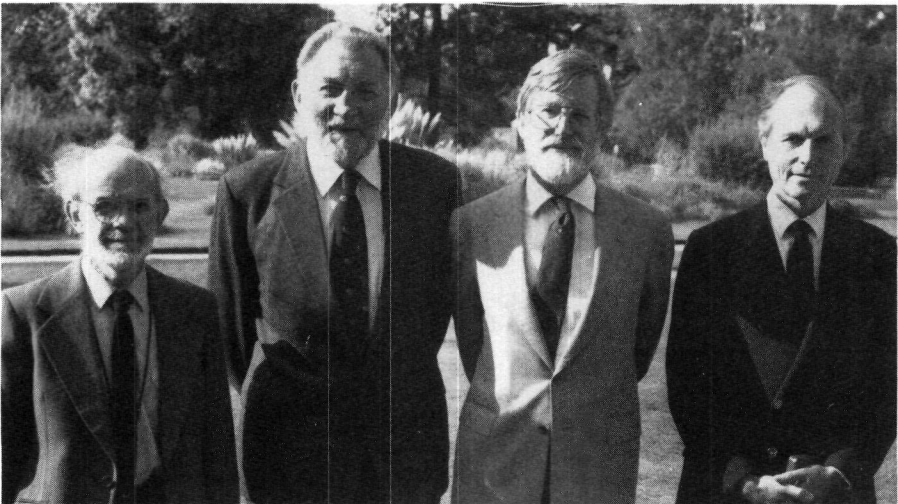
The name of the recipient is engraved on the reverse of the medal, together with the year of the award, and is encircled with vine leaves and a crown signifying Kew's links around the world.

MR. NIGEL HEPPER, P.S.O. Herbarium (Retired)

For his exceptional and devoted service as an ambassador for Kew at home and abroad.

MR. PETER TAYLOR, P.S.O. Herbarium (Retired)

For his exceptionally high standards which he achieved during his many years at Kew.



Left to right: Peter Taylor, Professor David Bellamy, Professor Ghilleen Prance (Director) and Nigel Hepper.

THE KEW MUTUAL IMPROVEMENT SOCIETY

by Ian Kirby

The Society continues to be well supported by students, staff and friends, with membership for the current year standing at 170, and attendance on Monday evenings ranging from 50 to more than 100 people. Despite this support there is always opportunity for new members to enjoy the benefits and become actively involved in the life of The Kew Mutual — allow me to convince you!

Spring 1989

Dr. David Cutler started the season with an account of research on trees following the October 1987 storm, a theme which could be sadly repeated after the additional losses during the storm of January 1990.

P. McMillan Browse, Director of Wisley, advised on Aspects of Plant Propagation.

Mike Nelhams, from Tresco Abbey Gardens, gave an encouraging talk on replanting at Tresco following several severe winters.

John Whitehead and Martin Gardener both gave travelogues of visits to South America, an area of the world that continues to be of great interest to members of The Mutual.

Student lectures included John Anderson on Mount Usher, Graham Dear, Marc Long, and Tim Upson who won the student lecture competition with his talk on the flora and landscapes of The Canary Islands.

The spring programme concluded with Gren Lucus giving a lecture entitled, Plants and Man — The Conservation of Our Life Support System, in which the intricate realm of conservation politics were vividly brought home.

Annual General Meeting

The A.G.M. saw the departure of several committee members including Brian Halliwell who deserves special thanks for his huge contribution to The Mutual over the years. Thanks also to Brendan Little, Sue Speilberg, Richard Baines, James McMillan, Tom Parker and Carolin Göhler for their service to the committee.

A new committee was duly elected as follows:—

Chairperson: Ian Kirby

Secretaries: Camilla Ely, Russell Forbes

Treasurer: Peter O'Toole

Members: Peter Brandham, Louise Bustard, Dickon Bowling

Kew Mutual Improvement Society Prizes

Sir Joseph Hooker Prize	Brendan Little
C. P. Raffill Prize	Tim Upson
Professor Keith Jones Cup	Chris Heron
Kew Mutual Improvement Society's Prize	Sue Speilberg and Richard Baines
George Brown Prize	Marc Long, Graham Dear, John Anderson
	(joint runners-up in the student lecture competition)

The trophy for the greatest number of Items of Interest was returned to the Alpine Department.

Autumn Programme 1989

The new season at The Mutual kicked off with the chaos of a Cheese and Wine Party — it made a pleasant change to hold it upstairs in the Wood Museum. A second break from convention came in the form of a Jazz Band; but did they come to entertain or overwhelm was the question! It was certainly a night to remember.

The lectures started with Tim Walker of Oxford Botanic Gardens on Plant Hunting in Japan. Visitors from other Botanic Gardens included Barry Phillips on Bermuda, and Simon Goodenough, Curator of Ventnor Botanic Garden, who spoke about Botanic Gardens in New Zealand —

unfortunately he was not convinced of their value, criticising them for being amenity orientated.

Tim Upson returned to give a well illustrated talk about his time at Jerusalem Botanics, we wish Tim luck in his new position at Limbe Botanics in The Cameroons.

John Watson, a freelance plant hunter, was especially interesting to alpine enthusiasts with his account of Plant Hunting in the Southern Andes and Patagonia.

Dr. John Dransfield took us to the opposite side of the world with an informing talk on his involvement in The Great Forests of Borneo.

George McRobie caused quite a debate after speaking on The Search for an Appropriate Technology, a subject that is so closely linked to our own concerns for the conservation of the earth's flora.

Other guest speakers included Nick Deakin-Elliot who warned of the impending effects of 1992 on the Nursery Stock Industry, and Anne Horsfall giving a charming account of Dorset Wildflowers.

The Living Collections Department was represented by Phillip Brewster who shared with us his passion for the Canary Islands

Competitors for the student lecture prize (C. P. Raffill) were, John Anderson with a story of forgotten wonders in a garden (José Acanto) on the Azores, and Brendan Little's entertaining talk, A Day in the Life of Jersey Zoo.

Lectures are supplemented by Items of Interest. These are short talks that are often illustrated by living plant material or slides, but not necessarily horticultural in content. Items of Interest are one of the most valuable contributions to the life of The Mutual, offering an opportunity to practice public speaking, and to share information or experiences. Although far too numerous to mention individually I would like to thank everybody who has done "Items".

Many more people deserve a mention, not least the committee, but my personal gratitude must go to Dickon who has always proved to be a source of sound advice.

Hopefully you are now convinced to 'come on down' and get involved with The Mutual. Because it is a self-help group its success depends on your contribution.

LIVING COLLECTIONS DEPARTMENT REPORT 1989

Ian Beyer and Mike Maunder

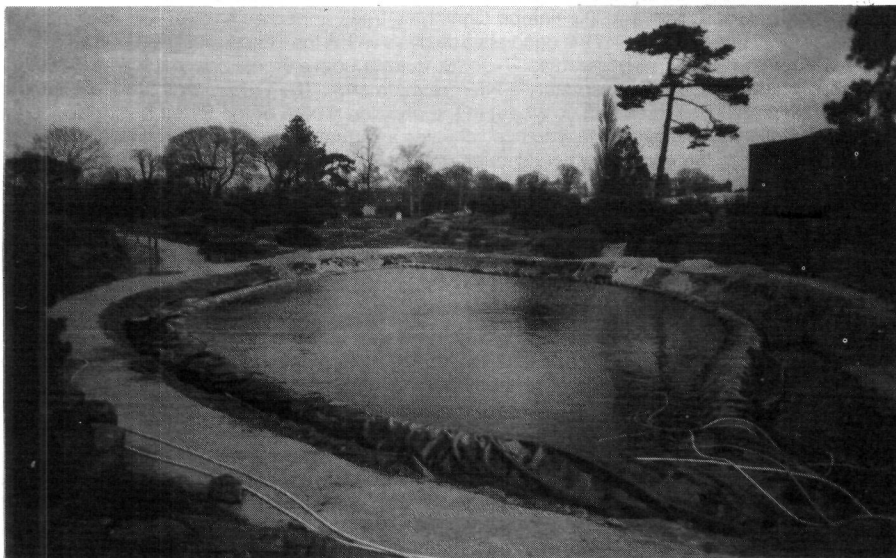
The last year of the decade has seen an African village sprout incongruously at the base of the Pagoda and reindeer penned on the lawns by the Princess of Wales Conservatory! More on these exotic diversions later. On a more conventional level 1989 proved to be a year of consolidation and development with the gardens and collections improving both in scientific calibre and as exciting public displays.

Several important areas reached critical stages in their development. The Rock Garden is now changing dramatically under the guidance of Mike Sinnott, the central "plum pudding" has been removed to be replaced in the near future by a bog area (see photo). Nearer the Woodland Garden new rock formations are taking shape. When completed it is envisaged that visitors will be able to scale the previously unconquered peaks of the Rock Garden so obtaining panoramic views of the new landscape.

At Wakehurst Place the gardens continue to develop, the Trans-Asian Heath garden has been planted and will soon mature into an area of phyto-geographical and horticultural interest. The orchid re-introduction work continues with the Wakehurst estate acting as a vital trial ground for techniques that will prove invaluable in the conservation of our native terrestrial orchids. To fill the post left by Geoff Greenough, the post of Woodlands Supervisor is now held by Andy Jackson, previously Horticultural Research Fellow based in the Planning Unit.

In the North Arboretum the landscape surrounding the Sir Joseph Banks Building approaches completion. The external and internal plantings will complement the economic theme of the

exhibition with areas of aromatic herbs, timber trees and fibre plants. This may create the impression that the area will resemble a plantation; in fact this new area with its terraces and rock cascades is a significant addition to Kew's landscape developments. Within the building the entrance atria now houses a collection of tender fibre plants including the obvious such as cotton (*Gossypium spp*) and the more obscure such as baobab (*Adansonia digitata*).



Rock Garden — development of the bog area, butyl liner being laid.

The Temporary Palm House, home to the exiled palm collection since 1984, has been partly emptied, and the Palm House, now fully restored, is planted and rapidly attaining a look of maturity. With a willing team of students lead by Sue Minter and Dave Cook the resoiling and planting was done in record time. By mid-summer the house was opened for evening previews to an appreciative public. Already the house is filled with the exuberance of the rain forest. Climbers have rapidly clothed the columns and the palms are putting on an impressive amount of growth. The cycads from drier climates have been retained in the Temporary Palm House where it is hoped they will form part of a future display.

Beneath the Palm House the Marine Display area is approaching completion. Kew's resident Marine Biologist, Peter Morris, is amassing a unique collection of marine algae, the fruits of collecting work in the coral reefs of Hawaii, Australia's Barrier Reef and Malaysia.

A number of expeditions left Kew in 1989; David Cook collected in Madagascar with Dr. John Dransfield; Mark Flanagan and Tony Kirkham travelled east to South Korea; Mike Maunder collected in southern Japan with Bill McNamara of the Quarry Hill Botanical Garden, and Mike Sinnott went to Nepal with a joint Kew-Edinburgh expedition. All returned with successful collections and the usual selection of traveller's tales. One of the more unusual journeys made in 1989 was when a group of L.C.D. staff and the Director went to the Space Biospheres Venture in Arizona. The team, consisting of Hans Fliegner, John Lonsdale, Mike Maunder and John Woodhams, went to advise on horticultural procedure. The Space Biospheres Venture is an ambitious project to create a self sustaining ecosystem within a sealed system. This involves creating functional analogues of the world's major vegetation belts, these acting as the biological pumps for the life support systems. It is, in fact, a working model of the earth.

Summer saw a series of social events. As alluded to earlier, the usual summer calm of the South Arboretum was broken by the drums and voices of African musicians. Later in the season the now traditional jazz concerts attracted large and enthusiastic crowds — this annual series of concerts is rapidly becoming a major event for south-west London. Usually Christmas is not marked by any major events — this has now changed. Galvanised by the success of last year's carol concert in the then empty Palm House, the festivities of 1989 marked a new approach for Kew. Large and illuminated Christmas trees appeared at strategic intervals, the Salvation Army band played and the decorative displays within the Princess of Wales Conservatory were filled with masses of poinsettias — so far quite a conventional approach was adopted. Now for the change; the Conservatory's interpretation area, The Tropix, was transformed into Father Christmas' Rainforest Office where in the dappled gloom of the forest he expounded a seasonal conservation message to entranced children and parents. Outside, in a corral constructed by the Tree Gang, the necessary accessories for any Father Christmas were on display — two reindeer, probably the first at Kew since the last Ice Age! Kindly lent along with keeper from Whipsnade Zoo Park they represented a new venture for Kew and it is with trepidation that one wonders what will be produced next year!

This year saw a number of important visitors including the Prime Minister who came to view the recovery since the "hurricane" and tour the gardens generally. In December a delegation from the Belgian Royal Family toured the glasshouses.

This year also saw the retirement of two long established members of Kew. With them has gone a fund of knowledge that has taken decades to accumulate. Alan Cook, "Cookie" to generations of staff and students alike, had become an apparently permanent feature of Kew and was recognised for his encyclopaedic knowledge of herbaceous and alpine plants. Another major change was the retirement of Brian Halliwell, the Assistant Curator for Alpine and Herbaceous. The autumn saw Brian retire to his native Yorkshire. Brian will be long remembered, not only for his wit and forthright manner, but also for his long involvement with the Kew Mutual Improvement Society and his specialist knowledge on such topics as garden plant history. It was a very fitting end to Brian's time at Kew when, at the 1989 Chelsea Flower Show, his William and Mary garden was awarded a Gold Medal.

So much for 1989, the next year promises a great deal of activity with the openings of the Palm House and Joseph Banks building in addition the School of Horticulture is due to vacate its traditional home in Desscanso House and move to the converted Museum Number Two.

EXCERPTS FROM KEW NEWS 1989

with thanks to the Editors

Jodrell Students

Sitting in the Jodrell tea room recently, I could not help noticing the ever-swelling numbers of the student faction. In addition to the normal complement of sandwich course students, who work at Kew for a year as part of their undergraduate course, there are now more postgraduate Ph.D. students undertaking research in the Jodrell than ever before. As only some of the Ph.D. students manage to gain the recognition of an entry in the Kew telephone directory during their three or more years of study, I thought that I would devote this issue's Jodrell column to mentioning who the current Ph.D. and sandwich students are and briefly describe what they are doing.

Beginning on home ground in the Biochemistry Section, there are currently four Ph.D. students working here, who devote their efforts to grinding up plants in the search for biologically active compounds. Mike Cole and Phil Stevenson are studying compounds with anti-insect properties, with Mike concentrating on labiates, some of which contain potent insect deterrents, while Phil is looking at the effects of *Arachis hypogaea* (peanut) on the feeding and reproductive behaviour of the tobacco army worm, a major pest of peanuts. Following on from Kew's involvement in AIDS research via the castanospermine saga, Andrew Burke is screening for anti-viral activity in plant extracts and Alison Watson has digressed away from plants and is

studying the production of castanospermine-like compounds in insect pathogenic fungi. A further five Ph.D. students work on other aspects of plant-insect interactions but have their main research base at Birkbeck College, London. Similarly John Shaw does much of his work at Dundee University, where he is taking a chemical approach to examining nodulation in primitive legumes.

Occasionally, one of the Anatomy Section's Ph.D. students, Sean Clifford, is to be seen in Biochemistry, as his research on the breeding systems in orchids (especially the self-incompatibility systems in the Oncidiinae) moves from a morphological approach to a biochemical one. Mary-Clare Sheahan's Ph.D. is also multi-disciplinary, as she examines the taxonomy, anatomy and C3 and C4 photosynthesis of the Zygophyllaceae, whilst the other students in the Section, Dorothy Cailing and David Phalatsé, are at present engaged in systematic anatomical studies of the Australian Proteaceae and the tribe Dalbergieae, respectively. Jon Hather has successfully completed his thesis on the identification of the charred remains of soft plant parts, such as tubers, and our congratulations go to him as he starts his new job at the Institute of Archaeology.

The final Ph.D. student who presently has a permanent research base in the Jodrell is Markella Callimassia in Cytogenetics. She was one of the first colonisers of the new, well hidden research offices, and is examining the separation and spatial arrangement of chromosomes in dicotyledons following wide crosses. We will probably also see Caroline Aldridge from Wakehurst up here, since she has just started her Ph.D. on the desiccation tolerance of grass propagules, which includes genetic as well as physiological work. Undoubtedly we can expect more students in Cytogenetics as their new research laboratory becomes fully operational.

The sandwich year students generally assist staff with their research. Diane Smethurst, Nina Jenkins (both from Thames Polytechnic) and Sharon Hewis (Hatfield Polytechnic) are this year's Anatomy trio. Diane is helping with the project which compares the anatomy of woods with their structure and use. Nina meanwhile is examining the structure and functioning of plant reproductive and incompatibility systems, whilst Sharon is glued to her microscope surveying the structure of laticifers (latex cells) in the Euphorbiaceae. In Biochemistry, Elaine Porter (Hatfield Polytechnic) has been sent forth to the Order Beds to search for new alkaloids, and Tammy Hazelton (Wolverhampton Polytechnic), has also been seen on collecting expeditions as she attempts to identify a germination inhibitor in *Reynoutria japonica* (*Polygonum cuspidatum*, Japanese Knotweed). Lisa Sharman (Thames Polytechnic) in Cytology is assisting with a chromosome survey of Turkish Hyacinthaceae, together with the lone male sandwich student, Rhidian Lewis (NELP), who is working on techniques to locate genes on chromosomes.

In spite of not being able to get into the tea room on occasions, it is, nevertheless, good to have such a large and growing student community in the Jodrell, and the sign of a healthy research institution.

(Geoffrey Kite — *Kew News* No. 2 1989)

Farewell Leo Pemberton

Normally retirement farewells at Kew tend to be internal affairs but since, as Supervisor of Studies for the last 25 years, Leo Pemberton had influenced the careers of the many alumni that practice horticulture beyond Kew's formal boundaries, a collection was made from the last quarter century's past students and all were invited to attend the farewell held in the new Banks Building. Nearly 200 gathered to say farewell and to see the presentation of a commissioned painting of *Agapanthus* by Margaret Stones.

With catering by Hazel Hyde and Studies staff, including the newly-appointed Graham Bass and his fiancée Jeanine, the occasion proved a happy reunion party for the alumni and Leo, Melda and their family. The scroll of signatures extended for many metres in true testament to Leo's achievements for Kew's School of Horticulture and its students.

Leo's early career involved experience with Bromley Parks Department and study at Swanley Horticultural College in Kent before he entered Kew as a student in 1952. From Kew he went on to gain a Master's Diploma in Horticulture and a career in horticultural education; first as a Demonstrator at the University of Reading, then on to Pershore College of Horticulture as

Organiser of Extra-Mural Studies and finally as a lecturer at Swanley College before coming back to Kew in 1965 to head up the reorganised Kew horticultural diploma course.



Left to right: Mrs. Pemberton, Professor Prance, Leo Pemberton (with the scroll of signatures) and John Simmons.

Beyond Kew, Leo has contributed significantly as Supervising Examiner and Examination Board Member for the Royal Horticultural and Forestry Societies, the Institute of Leisure and Amenity Management, and the City and Guilds Committee. He was also the first Chairman of the South-East Branch of the Institute of Horticulture.

Over the last 25 years, the course at Kew has continued to advance and the success of the School of Horticulture's alumni is self evident. Leo's presence and wise council will be sadly missed.

As a happy footnote the R.H.S. has subsequently announced the award of their Veitch Gold Medal to Leo for his services to horticultural education.

(John Simmons — Kew News No. 2 1989)

MESSAGE FROM LEO PEMBERTON TO ALL STAFF

*"I doubt if I am alone in wondering how I would feel when 'retirement day' from Kew actually arrived. You all made this day so special and I would like to thank **all** the many kind friends who contributed to my splendid send-off celebration and present. I am sure that I shall be around occasionally in the Gardens and I will look forward to seeing the folks who made my time at Kew so enjoyable. Thank you very much."*

Addressing the problem (3)

Ever since the first two lists of incorrect Kew addresses were published in the Newsletter, readers have contrived to send in an amazing assortment of mis-spellings. The following is a selection of some of the more amusing ones recorded (many thanks to all who sent them).

Dr. G. T. Prance, New York Botanical Garden
49, Kew Green, Surrey TW9 3AA, England

Comment received with this one: I thought we were an outstation, but I didn't realise we had actually been taken over by the NYBG!

Royal Botanic Gardens, Kew
 Missouri Botanical Gardens
 P.O. Box 299, St. Louis
 Missouri, U.S.A.
Another take-over bid?

Mr. Fox
 R.B.G., Lakehurst Peace Ardingly
 Haywood Heath
 W. Sussex

Royal Botanic Gardens, Kew
 Wake Nurse Place,
 37 Kew Green,
 Richmond, Surrey
 Royal Botanical Bakery
 Kew, Richmond
 Surrey

Mrs. Harney
 The Herbarium,
 Royal Brattnic Gdns, Crewe
 Surrey

Dr. R. J. Probert
 Royal Botanic Garden
 Wakehurst Place
 Ardingly Jauwards Jeatj
 West Sussex, U.K.
Postmarked Manitoba.

Bot. Queue Gardens
 Richmond, Surrey

To the Principal
 Kew, Botanical Gardens
 London?

The comment on the envelope of the last item: "Sorry I don't know where they are — but please Postman try and get it there. Important. Thank you. (*Well done postman!*)

(*Editor — Kew News No. 2 1989*)

Board of Trustees — Royal Botanic Gardens, Kew

The Hon. John D. Eccles, C.B.E. (Chairman) has been General Manager of the Commonwealth Development Corporation since 1985, having previously served on the Board for three years. He is Chairman of Chamberlin & Hill plc and Director of Glynwed International plc. From 1981-1985 he was Deputy Chairman of the Monopolies and Mergers Commission. He is also Chairman of the Board of Trustees of the Georgian Theatre Royal, Richmond, Yorkshire. Mr. Eccles was born on the 20.4.1931 and for over 25 years has worked in industrial enterprises both in the U.K. and overseas.

Sir Leslie Fowden, F.R.S. who was appointed to the Board by Her Majesty the Queen, was, until his retirement in 1988, Director of the Agricultural and Food Research Council Institute of Arable Crops Research, based at Rothamsted Experimental Station, Harpenden. He is an expert in plant biochemistry in an agricultural context, and was made an Honorary member of the Phytochemical Society of Europe in 1985. Sir Leslie was born on the 13.10.1925.

Sir David Attenborough, C.B.E., F.R.S. is well known as a broadcaster and traveller. He was Controller of BBC 2, BBC Television (1965-68) and later Director of Programmes, BBC TV and a member of the Board of Management of the BBC (1969-72). Sir David, who was born on the 8.5.1926, is also a Trustee to World Wildlife Fund International, the British Museum and the Science Museum.

Professor William G. Chaloner, F.R.S. is Hildred Carlile Professor of Botany and Head of the School of Life Sciences, Royal Holloway and Bedford New College, University of London. He is also a member of the Senate of the University of London, and is a Past-President of the Linnean Society (1985-88). Professor Chaloner is a specialist in plant evolution and palaeobotany. He was born on the 22.11.1928.

Professor Edward C. D. Cocking, F.R.S. is Professor of Botany at the University of Nottingham, and is a specialist in plant genetic engineering, cell biology and tissue culture. Professor Cocking, who was born on the 26.9.1931, has been on the governing body of the Glasshouse Crops Research Institute since 1983.

Sir Philip M. Dowson, C.B.E., A.R.A. is a founder partner of Arup Associates and has served as an assessor for the Sir Joseph Banks Building at Kew. He received the Royal Gold Medal for Architecture in 1981. Sir Philip was born on the 16.8.1924.

Professor Gordon E. Fogg, C.B.E., F.R.S. was born on 29.4.1919, and is Professor and former Head of the Department of Marine Biology, University College of North Wales. Until 1985, Professor Fogg was also a Trustee of the Natural History Museum.

Mr. Robin A. E. Herbert, D.L., J.P. has been President of the Royal Horticultural Society since 1984. His principal occupation is banking and he is Chairman of Leopold Joseph Holdings plc, as well as being a Director of the National Westminster Bank plc and Marks and Spencer plc. His previous appointments include serving for nine years as Deputy Chairman of the Countryside Commission. He also served for many years on the Council and the Executive Committee of the National Trust. Mr. Herbert was born on the 5.3.1934.

Mrs. Arabella Lennox-Boyd is the proprietor of a landscape design business. She has designed a variety of gardens and landscapes, completing some 150 in all. Mrs. Lennox-Boyd has published a book entitled *'Traditional English Gardens'* and is writing another on the gardens of London to be published next year. Her office is currently working on the redesign of part of the garden at Ascott House, the gardens at Eaton Hall and the design of the roof garden for Number One Poultry in the City of London. She is also a member of the Council for the Painshill Park Trust. Mrs. Lennox-Boyd was born on the 15.1.1938.

Mr. Peter J. D. Marshall is a non-executive Director of the Yorkshire Post Newspapers and the United News Shops. He is also a member of the D.I.T.T. Trust, which is sponsored by the government for training in the Distributive Trades. He is much involved with charitable activities, including acting as Secretary of the Sir George Martin Trust for 20 years; he was Chairman of the Fountains Abbey and Bolton Abbey Appeals and is currently connected with the Bradford Grammar School Appeal. Mr. Marshall was born on the 4.10.1933.

Professor Elizabeth B. Robson, Ph.D. is Galton Professor of Human Genetics, and Head of the Department of Genetics and Biometry at University College, London. Her particular interests are in biochemical genetics and human gene mapping. Professor Robson was born on the 10.11.1928 and lives in Richmond near Kew Gardens.

Comdr. L. Michael Saunders-Watson, R.N. (retired), D.L. was President of the Historic Houses Association from 1982 to 1988, having been Deputy President between 1978 and 1982. He retired from the Royal Navy in 1971 on his succession to the Rockingham Castle Estate. He is a Trustee of the National Heritage Memorial Fund. Comdr. Saunders-Watson was born on the 9.10.1934. He became the Chairman of the National Curriculum History Working Group in 1988.

(Kew News No. 3 1989)

Overheard in the Gardens . . . (at Victoria Gate)

American couple: *"Excuse me ma'am, but where do we get the carriage for a tour around these here little old gardens?"*

Ticket officer: *"There is no form of transport her, you must walk."*

American: *"But it shows it here on the tourist map I got in Richmond — look, there you are: COACH AND HORSES."*

Ticket officer: *"That, sir, is a public house on Kew Green."*

(Jean Kirby, Ticket Officer)

Official Artist-in-Residence Award of First Bursary

Anne B. Nicholson, a sculptor from Brockley in London, is the winner of the first official Artist-in-Residence Bursary at the Royal Botanic Gardens, Kew. The Bursary, worth £3,000, is in memory of Norman Stevens, A.R.A., and is sponsored by C.C.A. Galleries Ltd. The presentation was made on the 7th of June 1989 at the Chelsea Arts Club in London.

Anne Nicholson was one of the 450 artists who sent in submissions for consideration by the Selection Committee. Over 800 artists applied for details of the scheme which is a clear indication of how attractive the award has been.

It is hoped that this first bursary will encourage other companies and organisations to come forward and make more sponsorship available for similar projects in the future.



Anne receiving her cheque from John Simmons.

Anne, who is currently taking part in the Third International Sculpture Symposium, part of the Fifth Scottish Sculpture "Open" Exhibition at Kildrummy Castle in Lumsden, Aberdeenshire, was selected from a shortlist of eight candidates who were interviewed by a panel consisting of two representatives from the Royal Botanic Gardens, Kew, one representative from C.C.A. Galleries Ltd., as well as Elizabeth Blackadder, R.A., William Packer, art critic for the *Financial Times* and Tom Northey, Group Press and Public Relations Manager of Pirelli Ltd.

The Committee decided the award Anne Nicholson the bursary as they were particularly impressed with the way she had thought out and carefully planned the use of the bursary at the Royal Botanic Gardens. They considered that she had given special thought to the bursary's use from the Gardens' point of view as well as her own.

(C. Brandt)

Runners of Kew Unite

At any one time there may be up to 20 Kew staff running for fitness and *enjoyment* ("What?" I hear you say). Some manage to fit a good session into their lunch periods, when they are occasionally joined by visitors to RBG. Up to now such runs, as well as evening and weekend sessions, have been arranged informally, and that is probably the best and most realistic way for the most part.

However many runners may well be unaware of the existence of other such virtuous folk at Kew, and may appreciate: 1) knowing of the existence of some such, and thus being able to get in touch with them to arrange a trot at a mutually agreeable time; 2) the loan of the odd copy of *'Running'* magazine; and 3) other morale-boosting possibilities. So, all you Kew runners, (or prospective runners, for there is certainly room for beginners), let it be known that the undermentioned is willing to keep a running file of Kew runners' names, locations, programmes etc. (as the individual wishes), as a means of making communication between members of such a rare breed easier.

Send any details you wish to be available to other Kew runners to: Peter Edwards, Herbarium, top floor Wing D, ext. 4258.

P.S. Performances of runners known to me over the past year have ranged from a superb 14.30 from Lower Nursery to Richmond Bridge (2½ miles) to 22 mins for the same distance; 3 hours for a marathon, and not far off 13 hours for an 80 mile run!

(Peter Edwards)

West Africa Comes to Kew Gardens

During the week 15-25 June, Kew Gardens played host to a West African Music Village presented by Cultural Co-Operation. There were musicians and performers from Benin, Burkina

Faso, Cameroon, Gambia, Guinea, Nigeria, Senegal and an African dance company based in Britain with a mainly Ghanaian repertoire.



The Royal Performing Company of the Court of the Sultan of Bamoun, Cameroon.

The wonderfully sunny weather set the scene for an exciting and colourful week of events which included music and storytelling during the day, evening concerts and an exhibition of textiles and sculptures. All this was much appreciated by the many visitors.

(Kew News No. ?)

Conservation at Kew

This edition of *Kew News* is a special one to draw attention to the work of our Conservation Committee and the many aspects of conservation with which we are involved. I congratulate Ian Beyer (Chairman), and all the members of his committee because it is an active group that is bringing into focus the many ways in which we have long been involved in conservation as well as initiating many new measures.

The reports presented here show that conservation is not a new concept to Kew although it has now become fashionable. Long before the current wave of interest in green issues, the Gardens were rescuing and propagating rare species, banking seeds and preparing databases. Today, as there is a greater worldwide interest in environmental matters, it is important to present a consistent environmental message. As we advise governments about new plants for growing in arid lands, alternatives to the deforestation of rainforests or the trading of endangered species, it is important that we reflect the same message in our institutional lifestyle. It is for this reason that the Conservation Committee is concerned with our use of energy, whether our vehicles run on leaded or unleaded fuel, or what waste products we recycle. This integrity of lifestyle is a challenge, both to the institution and to members of staff as individuals. Please continue to make creative suggestions to the Conservation Committee and to point out the areas where there is still room for improvement.

Environmental issues can be a uniting factor for all the departments in the Gardens as each one has a representative on the Conservation Committee and each department is involved in the cause. The Living Collections Department has long been involved in the collection, propagation and distribution of rare and endangered species; now it is looking at such things as biological control of pests in greenhouses and alternative sources of heat energy.

The scientists in the Herbarium and the Jodrell Laboratory have carried out much research on listing endangered species, the introduction of new crop species, tree growth as an indicator of pollution and many other aspects of the environment. The Information & Exhibitions Department interprets to the public both the work of Kew and the conservation issues with which we are concerned. The proposed rainforest exhibition will interpret one of the world's most serious environmental problems. The Kew Shop has recently introduced biodegradable bags instead of plastic which remains stable for centuries, and it is also seeking to sell environmentally friendly products. The Building and Maintenance Department is improving our efficient use of energy which helps both our environmental image and, no less importantly, our budget. Administration is investigating the supplies we buy and purchasing paper that is recycled and from sustainable sources.

Together we are doing a lot for the environment. With our own house in order, we are qualified to go out and advise rainforest countries how to manage their forests, arid regions how to plant sustainable crops and governments and those in authority which plants can be traded and which require careful control.

I hope that this newsletter will serve to show what we are already doing for conservation and the environment, and also to remind us of how much remains to be done.

(G. T. Prance — Kew News Special Conservation Issue, December 1989)

The Role of The Conservation Committee — Chairman's Remarks

In 1974, conservation was an unfamiliar term, and if I had been asked to make any reasonable argument either for or against a proposition containing it, I would have been hard pressed to write more than a few words. This was soon altered when the Director, Professor Jack Heslop Harrison, presented Kew with the challenge of responding to the United Nations Declaration on the Human Environment which arose out of a conference held in Stockholm in 1972. Of the 26 principles in the Declaration five of the first six are, to me, the most pertinent, and it is alarming that the world at large is only now appreciating their importance. They read as follows:

Principle 2. The natural resources of the earth including the air, water, land, flora and fauna, and especially representative samples of natural ecosystems, must be safeguarded for the benefit of present and future generations through careful planning or management, as appropriate.

Principle 3. The capacity of the earth to produce vital renewable resources must be maintained and, wherever practicable, restored or improved.

Principle 4. Man has a special responsibility to safeguard and wisely manage the heritage of wildlife and its habitat which are now gravely imperilled by a combination of adverse factors. Nature conservation, including wildlife, must therefore receive importance in planning for economic development.

Principle 5. The non-renewable resources of the earth must be employed in such a way as to guard against the danger of their future exhaustion and to ensure that benefits from such employment are shared by all mankind.

Principle 6. The discharge of toxic substances or of other substances and the release of heat, in such quantities or concentrations as to exceed the capacity of the environment to render them harmless, must be halted in order to ensure that serious or irreversible damage is not inflicted upon ecosystems. The just struggle of the people of all countries against pollution should be supported.

As a major international botanic garden, Kew had to respond, particularly on how the living collections element could be utilised as part of a logical overall conservation policy. I was given the task of organising the first of two international conferences held at Kew to examine this question and to set objectives for those gardens willing to address what was then not a popular subject. Over the next 15 years we have seen a slow awakening of the world to the dangers we now face by not managing our environment sensibly.

Where Kew has reached in this time is outlined in the main article. When the Director, Professor Iain Prance, asked me to become Chairman of the Kew Conservation Committee

earlier this year, I was somewhat intimidated by the size of the task ahead. Having accepted, I was immediately faced with the problem of where to start; were local environmental issues of primary importance, or should the Committee devote time to thinking how germplasm can be preserved in an alien environment? The Director initially made reference to every conservation and environmental issue imaginable and the Committee's brief seemed to become wider and wider.

He was not wrong, because the Committee, which represents all staff at Kew, must face up to the fact that the more we do the more that will remain to be done. If we are to be harbingers of conservation then we, as an institution, must do our best to present an acceptable face to the world. Yes, it is important to recycle, to use materials that are not products of a destroyed rainforest, to switch off electric lights if not needed, to use biodegradable products. How can we claim to be protecting the rainforest if we do the very things which will lead to a major environmental catastrophe sometime in the near future?

It has been difficult to decide where to start, so the Committee reviewed what the Royal Botanic Gardens, Kew, is already doing because we are better than many realise. Our findings are now published in this special conservation edition of *Kew News* which I hope will achieve our aim — that is to inform as many people as possible of our determination to move forward as an environmentally clean organisation.

The Committee is depending upon your support without which we will surely fail. It is our intention to try to keep you fully informed of our progress, primarily using *Kew News* as a way of doing this. We must all remember that extinction is for ever and the human race is a prime candidate for the former unless we all act responsibly.

(Ian Beyer — Kew News Special Conservation Issue, December 1989)

Members of the Conservation Committee

Mr. I. Beyer (Chairman)	Mr. N. McGough
Mrs. G. Bromley	Mr. M. Maunder
Mr. P. Edwards	Mr. R. Mitchell
Mr. R. Hastings	Mr. G. Oldfield
Mr. S. Linington	Dr. P. Wyse-Jackson (IUCN)

Re-use and Recycling of Paper at RBG Kew

— Making a Contribution Towards a More Sensible Policy for Paper

Many staff have always been careful about their use of paper. For instance, the substitution of partially used paper for official memo slips is a sensible and frequent practice within the institute. Other practices such as the reuse of packaging materials are also widespread.

The need to do more

On a national basis paper has been disposed of in landfill sites which are becoming rare. Such disposal has been costly in economic and environmental terms. The environmental advantages of recycling are clear, such as reducing gases contributing to the greenhouse effect, caused by decay of paper at landfill sites or via incineration. But, you may say, many north temperate trees are grown specifically for paper. This is true, but planted forests are increasing at the expense of native habitats in order to supply the increasing requirements of consumers.

A recent survey at Kew revealed that as much as 80% of all our wasted paper can be recycled. Thus, the time has clearly come to institute recycling and to prevent such wastage.

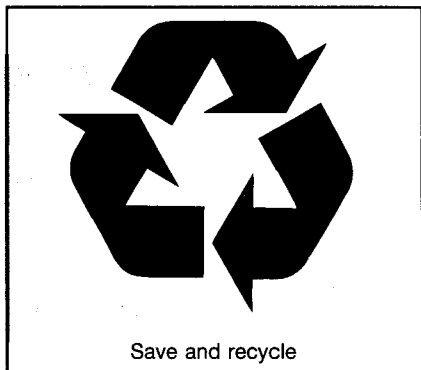
The challenge

Recycling anything well needs research, planning and full co-operation. It should be carried out as part of office practice. After considering many options, the Conservation Committee decided to implement the following system.

Three grades of paper are to be separated for collection, namely:

1. **Office white paper** — this is any sort of white paper (except newspapers and magazines) with or without printing on it and without a high gloss.

2. **Computer paper** this is the high quality white paper that behaves like an apical meristem of unlimited growth and exhibits positive geotropism. Variouslly called 'computer listing paper' or 'CWS' (continuous white sheet).
3. **Cardboard** — all sorts, but mostly the brown corrugated type.



Grade 1 should be placed into the green plastic bins which are being provided. The contents of these will be collected regularly and placed into large hessian sacks (supplied by a local paper merchants) stored on hooks at a number of conveniently sited 'substores'.

Grade 2 is kept flat in cardboard boxes and transported to a substore when convenient.

Grade 3 is flattened as much as possible, loosely tied and similarly stored.

These materials are transported, via RBG's Services Section to a large, secure and transportable container supplied by the merchants. The security of the container is important as it prevents contamination of the correct contents by errant rubbish.

Each work area should have a 'recycling co-ordinator' to help deal with any possible problems.

In addition RBG has a newspaper/magazine bin for any staff member to use. The bin is provided by courtesy of the London Borough of Richmond, who are leaders in this recycling field. It is also intended that RBG will have a number of information boards relating to recycling activities.

We hope that all staff will be pleased to co-operate in this important new scheme.

(Peter Edwards — Kew News Special Conservation Issue, December 1989)

ROYAL BOTANIC GARDENS, KEW RECEIVES £1 MILLION ENDOWMENT FOR ORCHID CONSERVATION AND RESEARCH

Sir Robert and Lady Sainsbury have generously endowed £1 million for the continuation of the Sainsbury Orchid Conservation Project at Kew. The project involves research into the cultivation of endangered species, with emphasis on British and European orchids, and aims to re-establish them in managed sites in the wild. This endowment ensures the future stability of the project which is supervised by Joyce Stewart — Sainsbury Orchid Fellow, with assistance from Robert Mitchell — Sainsbury Orchid Conservation Officer.

The gift comes in the early stages of a major drive by the Trustees of the Royal Botanic Gardens, Kew to attract substantial support from the private sector. A new charitable Foundation and a Friends of the Royal Botanic Gardens, Kew organisation will create significant resources to fund new areas of development in plant research and conservation.

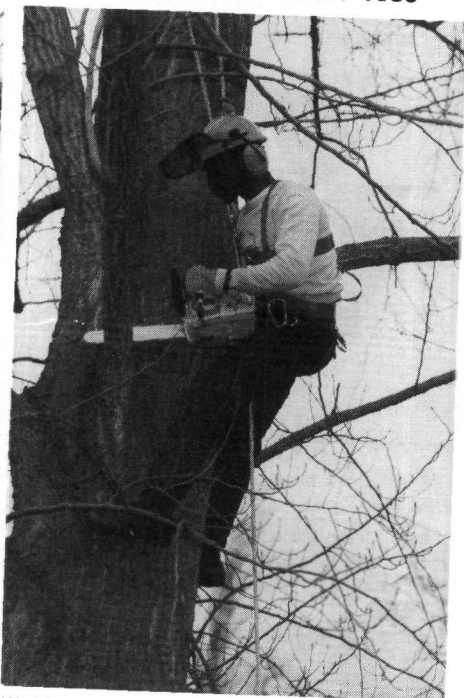
Grants have also been made recently by B.P. and Marks & Spencer for scientific research and for a new seed conservation programme respectively. The Director, Professor G. T. Prance, has also received a pledge of £50K from two anonymous benefactors towards the initial costs of establishing the Foundation and Friends, both of which are to be launched early in 1990.

Editor's note: Lady Sainsbury donated her personal collection of orchids to Kew in 1980. Her enthusiasm for growing orchids led to her continuing interest and support for the development of the living orchid collections at Kew.

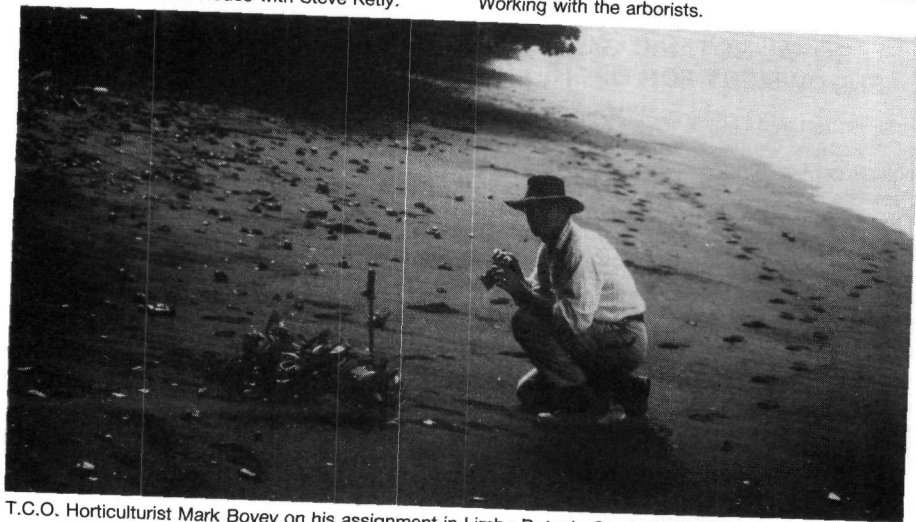
**MR. N. NDAM — CONSERVATOR, LIMBE BOTANIC GARDEN,
CAMEROONS, GAINING A YEAR'S EXPERIENCE AT KEW 1989**



Working in the Palm House with Steve Ketly.



Working with the arborists.



T.C.O. Horticulturist Mark Bovey on his assignment in Limbe Botanic Gardens, Cameroons.

REPORT OF STUDY TRIP TO NORTH-EASTERN TURKEY

by Richard A. Baines

In July 1989 I was fortunate enough to be awarded the Henry Idris Matthews scholarship. This allowed me to travel to the Pontic Alps to study the flora of the region.

The Pontic Alps is the name generally given to the highest parts of the Black Sea coastal range of north-east Turkey, between the Zigana pass and the lower reaches of the Coruh River around Artvin. The mountains rise to a height of 3,937 metres and fall steeply to the Coruh River to the south, and even more steeply to the Black Sea to the north. The northern side of the Pontic Alps, around Trabzon, receives a lot of moisture from the Black Sea and is covered in dense vegetation. The southern side, around Bayburt, is drier and contains a Mediterranean type of vegetation.

The expedition consisted of three members, Gerard Henry (Alpine Department, R.B.G. Kew), Zeki Aytag (Gazi University) and myself (Student, R.B.G. Kew).

The Zigana pass has an excellent reputation as being a plant hunters paradise. During our ascent we stumbled across many choice plant species. Growing in lush, sodden undergrowth with **Rhododendron luteum** was **Lilium szovitsianum**. It's clear yellow, sweetly scented flowers were at their peak and filled the surrounding air with a strong perfume. Growing under a canopy of **Pinus sylvestris** we found **Daphne pontica** perched on the stream banks. It's dark polished foliage making a fine contrast against it's fragrant yellow/green flowers. Also growing in this wooded area we found **Orobanche lutea**, **Digitalis ferruginea**, with it's wand-like orange flowers, and **Helleborus orientalis**. Huddled away in a pile of boulders was **Aquilegia olympica** displaying it's intense blue flowers.

The snow melt streams created many damp habitats which were covered in lush vegetation. Particularly common were **Caltha polypetala**, **Dactylorhiza ozmanica**, **Primula auriculata** and **Alchemilla sp.**

Growing in linear tussocks along the sheep paths was **Daphne glomerata**. Hardly known in cultivation it's sweetly-scented, creamy white flowers are produced in early summer.

The town of Gumushane, 90 kms further south, experiences a continental type climate in contrast to Trabzon's temperate climate.

Along the roadside we found **Phlomis vulgare**, an attractive member of the labiatae family with purple flowers neatly housed in the leaf axils.

Growing on the sun baked slopes we found large clumps of **Morina persica**, named after Louis Pierre Morin, a French botanist.

On the hilltops around Gumushane were **Acantholimon sp.** along with other choice alpinines such as **Astragalus**, **Euphorbia**, **Oreganum** and **Epipactis palustris**.

The following day's bus journey to Oltu exposed us to some spectacular mountain scapes. **Iris taochia** could be seen in abundance on the dry, sun baked slopes along the road. In direct contrast the following day **Gladiolus kotschyanus** was growing in saturated marshland with **Caltha polypetala** and **Primula auriculata**. This attractive member of the Iridaceae family has slender needle-like leaves and magenta coloured flowers. Along the dust tracks **Astragalus maximus ssp. maximus** was growing in pure rubble. Growing to five feet high it displayed attractive cylindrical inflorescences and against the sunset almost resembled a **Banksia**. Growing in the centre of a cultivated field we found a **Rumex sp.** with attractive scarlet seeds which in cultivation should prove to be an excellent dot plant.

The town of Yusufelli is found nestling in the valley bottom. Close to here we visited the highest point of the Kackar Range, 3,937 metres. The ascent to the summit of the altiparmack plateau proved to be a botanist's paradise. **Stachys grandiflora**, **Onosma**, **Pedicularis condensata** and **Anemone narcissiflora** could all be seen in abundance. In common with other parts of Turkey the area boasts a rich bulb flora. **Bellevalia**, **Ornithogalum**, **Fritillaria**, **Allium**, **Colchicum**, **Crocus** and **Gagea** were all recorded. The north facing slopes at the summit were carpeted with **Rhododendron caucasicum** growing to about two feet high.

The final few days were spent travelling through the **Arbutus andrachne** forests and Tea plantations (**Camellia sinensis**) along the Black Sea coast.

I would like to thank the individuals and organisations who made my participation in the expedition possible and the many who helped the expedition as a whole in this country and in Turkey.

PLANT COLLECTING IN SOUTHERN JAPAN

by Michael Maunder

In October 1989 I was privileged to join Bill McNamara, Assistant Director of Quarryhill Botanic Garden, California, on a plant collecting expedition to southern Japan. The aim was to collect material of wild Japanese plants for introduction into cultivation, although Japan has been extensively collected it still holds a phenomenal wealth for the collector.

Japan was until comparatively recently a closed nation to foreigners. It was not until 1826 that Philip Franz von Siebold was posted to Deshima Island, Nagasaki. Subsequently Japan has had a profound influence on the development of Western horticulture with regard to both its floristic composition and architectural structure. The success of Siebold encouraged many other collectors, amongst them John Gould Veitch, Robert Fortune, E. H. Wilson, Reginald Farrer, Charles Maries, Pere Urbain Faurie and Captain Collingwood 'Cherry' Ingram.

Japan's floristic wealth and consequent bulwark role for western horticulture can be assigned to a number of factors. Within Japan there are around 4,000 species of vascular plant. This incredible wealth is largely a palaeo-botanical legacy. Japan is recognised as holding a large number of taxa characteristics of the Tertiary geo-flora, a rich flora destroyed in Western Europe by successive glaciations. In addition Japan stretches from subarctic Hokkaido south to sub-tropical Okinawa. Our work was to focus on the islands of Shikoku, Kyushu and the volcanic isle of Yakushima.

We started at Chiba University near Tokyo, here meeting with our interpreter and guide, Shigeto Tsukie, an excellent plantsman and expert on the intricacies of sushi food. At Chiba we also met with Dr. Toshio Ando who organised and planned our trip. From Tokyo we caught the bullet train south to Osaka where we picked up our hire van and from there into the mountains above Koyosan. Here in mist wrapped mountains small pockets of original woodland lingered amongst blankets of **Cryptomeria** plantation and clear felling. Our guides were Takefumi Yoshino, in whose inn we were staying and Mitsuharu Ogaki of Kinki University. Both knew the mountains intimately and took us to some spectacular sites, highlights included finding 50 foot **Stewartia pseudocamellia**, huge trees of **Pterocarya rhoeifolia** and **Cornus kousa** in fruit.

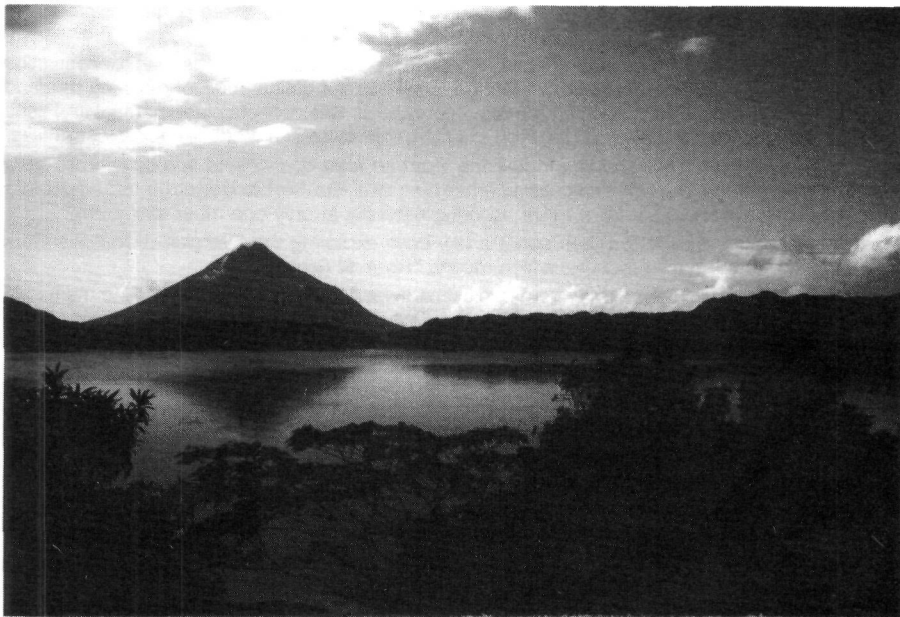
We then left Honshu travelling to Shikoku Island, there spending an enjoyable and profitable time collecting with Dr. Michio Tanaka and his colleagues from Kagawa University. As we travelled south the vegetation changed, increasingly the woods were evergreen with **Cinnamomum** and **Castanopsis** becoming more common.

Further south on Kyushu Island we collected with Mr. Yoichi Wakita, a horticulturist with a fantastic knowledge of **Asarum** cultivars. Wakita had a particularly dare-devil approach to driving. When taking corners on mountain roads one had the brief sensation of weightlessness!

At the tip of Kyushu we met up with Dr. Sakata of Kagoshima University and the film crew from NHK television who were making a film of the expedition. From Kagashima we caught the hydrofoil to the island of Yakushima.

A granite volcanic cone, Yakushima rises at its highest point to 1,935 metres above sea level. At sea level there are coral reefs and white sandy beaches and above these dense evergreen woodland extends up the mountain slopes merging into mixed woodland and finally montane rhododendron heath. At sea level the woods were dominated by **Cinnamomum daphnoides**, **Quercus phillyraeoides**, **Litsea** and **Melia**. In the under-storey grew spectacular tree ferns. Away from the influence of the sea the dominant tree was **Castanopsis cuspidata**

and occasional strangling figs furthered the tropical feel. At mid-elevation the forest's mosaic of greens was punctuated by orange spots. They were scattered trees of ***Idesia polycarpa*** heavily laden with fruit. Above these the forests were dominated by huge specimens of ***Cryptomeria***. Often multi-stemmed, these ancient trees supported many epiphytic plants including 30 foot trees of ***Sorbus commixta*** and ***Trochodendron aralioides!***



Landscape in southern Kyushu, Kagoshima Prefecture.

Yakushima's forests are still largely pristine and hopefully within the recently established national park will remain so. During the month in Japan the beauty of the landscapes and the generosity of the people we met impressed both Bill and I. In particular we were greatly moved by Mitsuharu Ogaki's gift of an almost complete collection of Japanese ***Asarum*** species.

After a month collecting in Japan and gaining a taste of the Japanese way of life (including lots of raw fish), it was a genuine culture shock to arrive back at a foggy Luton airport. At least I wouldn't have to face raw egg and seaweed for breakfast.

PAHAOKEE TO PANHANDLE — A STUDY TRIP TO FLORIDA

by Loraine Perrins

In August 1989, I had the opportunity to visit Florida for three action-packed weeks. A student travel scholarship and a generous donation by the Kew Guild helped me considerably in financing this trip.

This study tour was a combination of two travel scholarships submitted. Mine was concerned with southern Florida, with special regard to the Everglades National Park. Peter Hollett, who accompanied me to Florida, was particularly keen to travel to northern Florida and the Panhandle — the native habitat of an array of carnivorous plants. The final result of the combined interests was a thoroughly fascinating trip and an insight into the scenery and flora that Florida has to offer.

The journey commenced in Miami, spending a few days working at the Fairchild Tropical Gardens. I must state at this point that the people at this garden are some of the friendliest and most welcoming I have ever had the pleasure to meet, and they certainly made our stay at Fairchild a memorable one.

Fairchild is world renowned for its Palm and Cycad collections, and it was interesting to note the growing conditions and requirements that is supplied for these particular groups of plants.

One of our days at Fairchild was spent with Miss Jane Lippincott who is the Plant Conservation and Reintroduction Officer for southern Florida. Jane has the difficult task of rescuing rare and endangered plants from areas which are to be developed. She collects plant material and seed from threatened plants to grow on at Fairchild's nursery area, to later reintroduce into protected sites.

The day we joined her she was collecting from an area of pineland scrub, soon to be a housing estate. One plant of particular interest here was **Euphorbia deltoidia ssp. deltoidia var. adherens** which was known to be occurring naturally at only one other site.

Upon leaving Fairchild, we then spent a few days exploring the Everglades National Park of Pahaokee, to the native Indians, which means "River of Grass".

This area has incredible diversity from tropical hardwood hammocks to pinelands to mangrove swamps, each with their own special uniqueness. One particular plant species which will always spring to mind when hearing the Everglades mentioned is **Hymenocallis palmeri**, the Alligator Lilly, with its brilliant white flowers proclaiming itself in the jagged limestone terrain. There was plenty of wildlife to see here too, from the native white-tailed deer, to the ever-present alligators. It is distressing to know that even the Everglades, which is recognised for its uniqueness by being designated an International Biosphere Reserve and a World Heritage Site, are still perilously close to destruction, as nearby Miami squanders every available water source from it, and in effect is drying out this delicately balanced environment.

Recent research on how critical the water levels are to the Glades is standing conservationists in good stead for the future battles.

From the Everglades we then travelled further south to the Florida Keys and the John Pennenkamp Coral Reef Reserve. Here we donned snorkels and fins to experience the most fantastic sights I have ever seen. Coral reefs are a wonderment to behold and I thoroughly recommend that everyone should take the opportunity to experience them.

It was along the quays on our homeward journey two weeks later that we collected specimens of marine algae as requested by Kew from the forthcoming marine display.

The remainder of the trip I will leave for my companion Peter Hollett to describe as it deals with our quest for the elusive carnivorous plant and our journey north.

Anyone considering a tour to Florida for whatever the reason I would thoroughly recommend it, and I would like to thank the Kew Guild for assisting me on my trip. However, I do have one word of warning and that is if you plan to visit any natural areas in the south be sure to take plenty of mosquito repellent with you!

STUDY TOUR REPORT OF FLORIDA

by Peter Hollett

The study tour to Florida took place in July 1989 and resulted in the combination of two scholarships, my own to northern Florida and the Panhandle and that of Lorraine Perrins to the Everglades National Park and Fairchild Tropical Gardens. The earlier stage of the trip is covered by Lorraine dealing with the Everglades and Fairchild.

Leaving the Everglades behind we undertook the drive north. Any visit to Florida would not be complete without a visit to Disney World and Epcot Centre. It was interesting to note the carpet bedding displays, planting schemes, hard landscape features and topiary of the Disney characters. Also at Epcot they have many projects in operation with regard to plant growth in various media, nutrient balances and conditions that would be experienced in space.

From Orlando we headed further north to the Panhandle but with a stop midway at Manatee Springs. Here it was interesting to see the natural stands of the Swamp Cypress (*Taxodium distichum*) and the associated flora. It was very exciting to see the pneumatophores or 'knees' they produce to survive these conditions. Other plants of interest were the Manatee grass (*Thalassia* sp.) and the water hyacinth (*Eichornia crassipes*).

Heading further north-west we came to a site named Blackwater Springs which had been recommended to us as a possible site to observe carnivorous plants. Camping in the State Park here we were able to question the wardens as to locations for the plants. The wardens of the park were very helpful in identifying sites even though these plants are becoming increasingly rare due to drainage of the habitat, development and over collection.

One carnivorous plant which was reasonably common along the road verges was *Drosera capillaris*. This grew in the areas which are burnt off each year to reduce the height of vegetation so wildlife can be seen by motorists, and so there is little competition from grasses and other flora. Other plants in this area were species of *Pinguicula* and relatively poor specimens of *Sarracenia leucophylla* and *Sarracenia purpurea* growing next to a shaded stream. Further up the road was the most exciting site of the trip for me! We came across a wet, sandy field which at first looked full of white flower, but under closer inspection turned out to be a field full of the white pitchers of *Sarracenia leucophylla*. These pitchers were beautifully coloured due to their sunny position, brilliant white with bright red veining. Many of the pitcher plants were also in flower. As well as *Sarracenias* in this area there were vast amounts of *Drosera filiformis* and *Utricularia cordata*.

From the Panhandle the drive south was then undertaken passing through Manatee Springs once more and heading down the west side of the Florida Peninsula. The journey was broken by a visit to the Marie Selby Botanic Garden where a former employee of Kew was working and kindly showed us the garden and behind the scenes.

The allotted time in Florida was then running out, with only enough time to collect Marine Algae for the new display in the Palm House at Kew in Biscayne Bay area before boarding the plane to return to the U.K.

BIRDS AT KEW in 1989

by Rupert Hastings

Listed below are the more significant bird records for 1989. My own coverage was a little thin this year and I am very grateful to other observers, in particular Mike Maunder, for providing additional observations. A flock of 17 *Golden Plovers* on September 26th was only the first or second record for the Gardens. The big surprise, however, was the male *Red-breasted Flycatcher* found by Thomas Laessoe, a mycologist and enthusiastic birdwatcher who had only just begun work at the Herbarium six days earlier! He is familiar with the species as a scarce breeder in his native Denmark but it is only the eighth record for London and by far the rarest bird ever found at Kew.

Little Grebe: 16 on the Thames on January 11th was the highest count.

Great Crested Grebe: one pair raised at least three young at the Lake and another pair nested twice at the Pond, raising one young each time.

Grey Heron: unusually two pairs nested at the Lake but no eggs were seen. Apparently two pairs did raise young in Syon Park. As many as ten birds appeared at the Lake in the evenings.

Mute Swan: a slight increase in records, including a family of seven flying over Cumberland Gate on October 25th.

Greylag Goose: three or four birds are becoming quite regular visitors, associated with the Canada Geese.

Shelduck: a pair were on the Thames near Syon Vista on August 4th.

Mandarin: three or four wild birds are now regular at the Lake and a male was also at the Pond on April 1st.

Wigeon: A tame young male of uncertain origin was at the Lake on January 6th.

Teal: the annual winter flock on the Thames numbered up to 24 in February. Unusually a male visited the Lake on October 30th.

Pintail: a rather tame male, very likely an escapee, was on the Thames near Brentford Ait from August to December.

Shoveler: probably present daily in winter, with up to ten at the Pond and similar numbers at the Lake.

Goldeneye: a young bird flew along the Thames on October 30th.

Sparrowhawk: regular sightings but no evidence of breeding.

Kestrel: a pair raised five young near the Herbarium.

Golden Plover: a flock of 17 flew east over Brentford Gate on September 26th.

Snipe: well away from its normal marshy habitat, one was flushed in the Order Beds on October 9th.

Common Sandpiper: one along the Thames on August 1st, no doubt under-recorded.

Herring Gull: the distinctive Yellow-legged race was seen several times along the Thames in August and September.

Collared Dove: singles on January 5th and April 3rd.

Ring-necked Parakeet: up to 25 birds were found roosting at the Lake from September onwards. This established exotic breeds in Syon Park and maybe on some of the aits, but not (yet) at Kew. It is now known that ten captive birds from Syon Park escaped two years ago and presumably added to the local population.

Tawny Owl: quite regular sightings occurred in the north-west parts of the Gardens during the year and a pair probably bred near the Orangery.

Swift: the first two of the year were near Hanover House on May 3rd.

Kingfisher: singles were regularly present at the Lake in the spring and again between August and December, typically outside visiting hours.

Lesser Spotted Woodpecker: occasional birds were calling near the Herbarium in winter and spring, while M.M. encountered this species most often near the Queen's Cottage.

Skylark: one was heard on November 6th.

Swallow: a few were seen as usual in May and September.

Sand Martin: five were over the Pond in the evening on July 6th.

Meadow Pipit: 11 flew over the Queen's Cottage Grounds on September 26th.

Redwing: up to 26 occurred in November.

Blackcap: an early bird was singing in the Queen's Cottage Grounds on April 1st. At least three males were here in the summer.

Chiffchaff: present in the Queen's Cottage Grounds during the summer. Three were in a bird flock near Hanover House on September 15th.

Willow Warbler: three were in one tree near the Grass Garden on April 12th.

Spotted Flycatcher: one was near the Lake on June 6th.

Red-breasted Flycatcher: a calling male was located in a Yew tree not far from the Water Lily Pond on November 5th, an extraordinary event and the first record in London for 15 years.

Treecreeper: four were in the Queen's Cottage Grounds on April 1st.

Jackdaw: two were on Lot's Ait on January 11th.

Carrion Crow: can be very common in the vicinity of the river and about 170 were nearby in Syon Park on January 6th.

Greenfinch: at least 50 birds gathered to roost in winter in the north part of the Gardens.

Goldfinch: a flock of 23 was near the Banks Building on March 3rd.

Siskin: four were at the Lake on April 10th.

Redpoll: surprisingly scarce, the only bird all year was one near the Banks Building on January 19th.

Exotic birds that had escaped from captivity included a pair of *Ruddy Shelducks* twice at the Banks lake in March, a *Black Swan* (once again) at the Lake on April 1st, a *Budgie* flying past the Herbarium on April 19th, a *Cockatiel* caught near the Banks Building on June 16th and another *Cockatiel* flying past the Herbarium on August 9th.

Turning aside from the birds, it was an incredible year for Holly Blues which were exceptionally numerous right through the spring and summer. On the mammal front it seems that Hedgehogs have become much scarcer in the Gardens and there have been suggestions to introduce animals which have been in care. We need a better idea of their current status so would any observers of Hedgehogs please let me (Herbarium) or Mike Maunder (Planning) know of the details. Thank you.

THE PRIME MINISTER VISITS KEW

(First recorded visit of a Prime Minister in office — 16th June 1989)

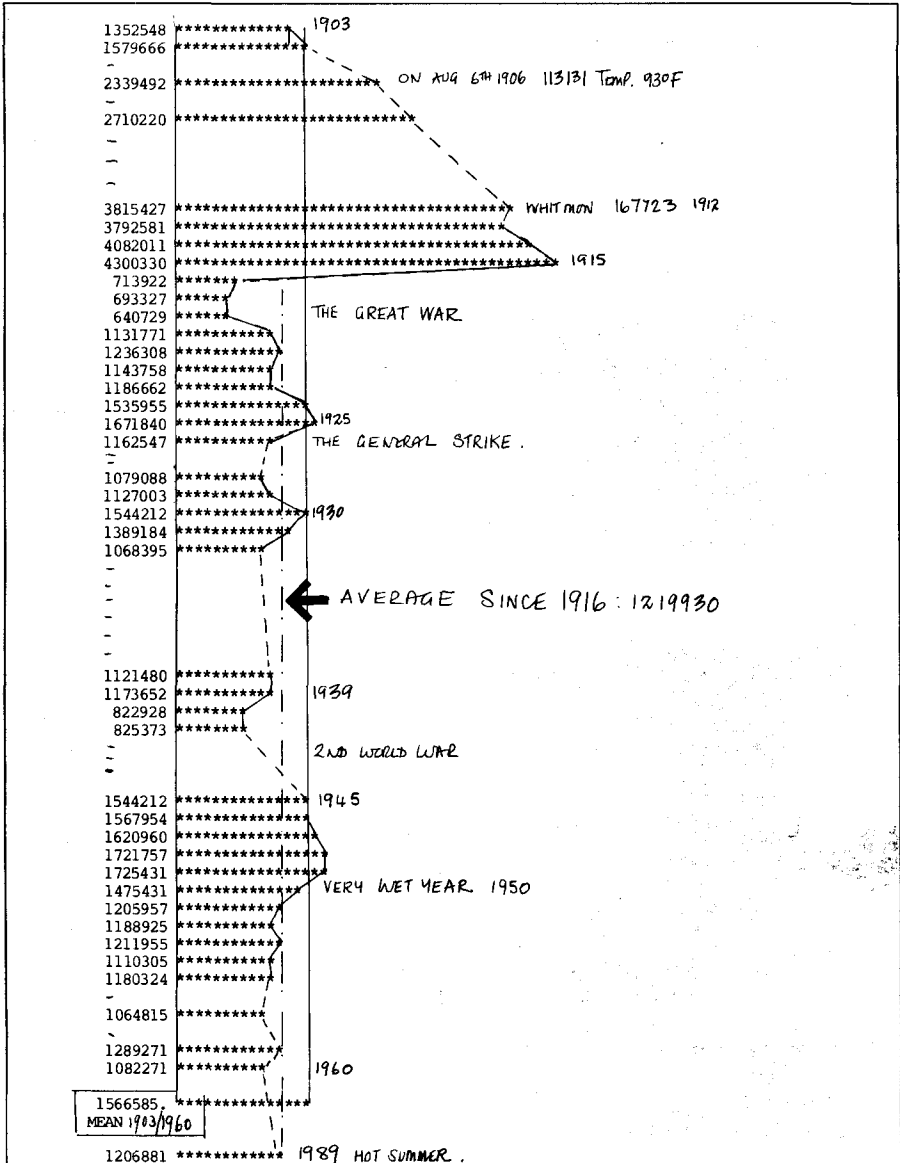


Left to right: Professor Gren Lucas, Curator John Simmons, the Prime Minister, Professor Iain Prance, the Prime Minister's Personal Secretary and the Hon. John Eccles, Chairman R.B.G. Kew, Board of Trustees.

VISITORS TO KEW FROM 1903 to 1960

by Graham Burgess

A graph using figures taken where available from old Kew Journals



Graph of visitors to Kew from 1903 to 1960.

At the turn of the century Kew entered what we must agree was its heyday.

In 1895 1,407,369 people came to the gardens. In 1906 over two million people enjoyed Kew as part of a hot summer. By 1912 three million eight hundred thousand entered the gates.

The onset of the First World War was obviously not felt at home as 1915 saw more than four million people pass through Kew.

The following year the dreadful toll of the War was made evident. It would appear that something was destroyed and never since then has Kew achieved such attendance figures.

We see a gradual climb until in 1924 and 1925 we reach the mean we have calculated for 1903-1960.

The General Strike affected transport, and the numbers of visitors as so many people then came by public transport; trains, buses and tubes.

The average was reached again in 1930 with 1.5 million persons entering the gardens.

It would be more realistic to see how trends look against the mean from 1916.

From 1932 through to the beginning of the Second World War we see attendance below that average.

After the Second World War things began to perk up, 1948 and 1949 rising above the overall average and gaining over 200,000 visitors over the mean from 1916.

1950 was very wet and this seemingly put people off for we see a decline and a plateau effect which still seems to be present with us.

Kew is about to change its emphasis quite considerably and become more "commercial" so for the benefit of future researchers I have included this year's (1989) figure of 1,206,881. This is exactly on the 1916-1960 Mean Line so perhaps it is the start of a line that will take Kew back to the glories at the beginning of the century.

Anyone living round Kew will tell you that the extra three million visitors will not be able to come in their own private cars!

KEW WEATHER FOR 1989

by Dickon Bowling

Year's total rainfall	553.3mm
Most rain in one day	29.3mm on 13.12.89
Highest temperature (maximum)*	33.6°C on 22.07.89
Lowest temperature (maximum)	4.2°C on 20.01.89 and 01.12.89
Lowest temperature (minimum)	-6.6°C on 26.11.89
Highest temperature (minimum)*	19.3°C on 22.07.89
Most sun in one day	15.7 hrs. on 04.07.89
Year's total sunshine	1937.2 hrs.
Mean daily average	5.29 hrs.

1989 was the sunniest and driest year since records started in 1981. Temperatures marked * were the highest since these records started in 1980.

There were 31 nights when the air minimum temperature was below freezing, 100 nights for the grass minimum temperature and 75 nights for the concrete minimum temperature.

There was no sun recorded on 66 days and no rain was recorded on 180 days of the month. There were 11 fog days.

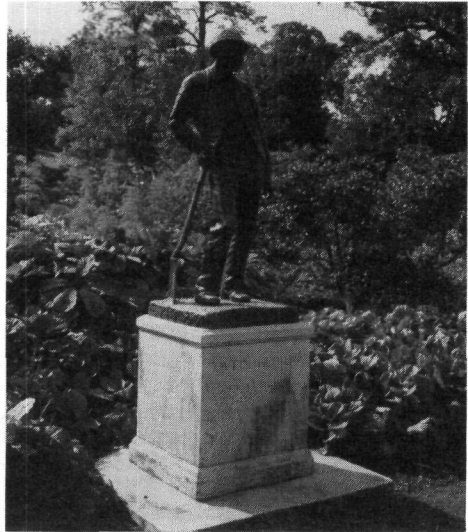
There were two days when snow was recorded, three days when hail fell and seven days when thunder was recorded.

The strongest wind speed was 29 knots with gusts up to 40 knots. It was a WSW wind on 22 and 24.03.89.

Of 81 pH tests, ranging between 4.60 to 6.92, the average was pH 5.96.

SOME GARDEN STATUES ARE USEFUL AS WELL AS BEING ORNAMENTAL

by Neil Gilmour (1950-52)



Back in 1951 when this statue stood in the middle of what was then the Iris Garden one of the students working there found that the sculptor had very conveniently designed it to hold a jacket. Harry Sieben's Dutch Royal Air Force blouse was frequently carried by the statue and as their colours were very similar visitors never noticed that the blouse was not part of the original.

Perhaps someone in South Africa who knows the whereabouts of Harry (last heard of in Queenstown, Cape Province) would like to show him these photographs to remind him of the good(?) old days and to show him that although the statue has been moved to the south end of the Natural Order beds it can still perform its useful function.

"YEAR OF THE MAZE 1991"

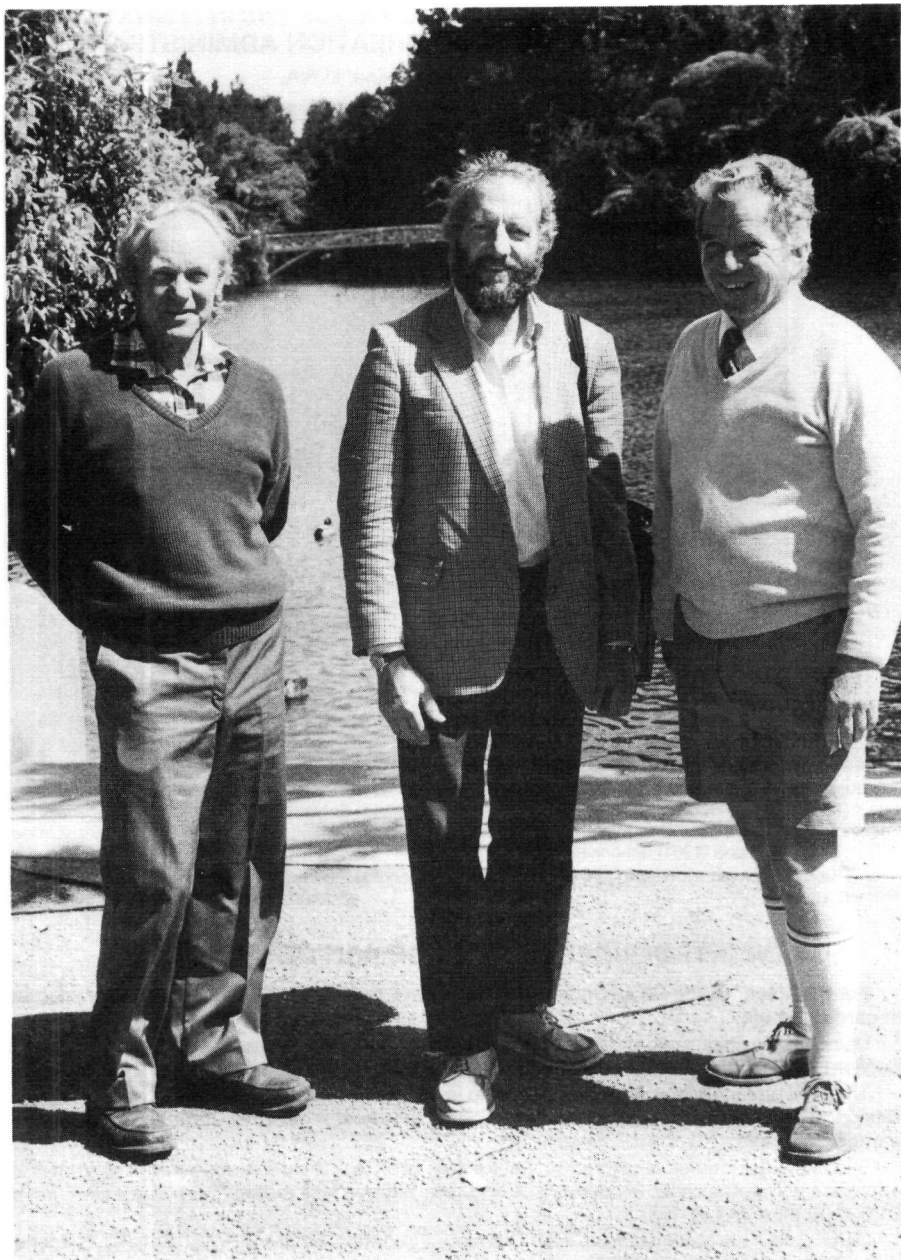
by Graham Burgess

1991 has been designated by The British Tourist Board as The Year of the Maze. It will be an opportunity for existing maze owners to attract additional interest. Several new mazes will open during the year and some will announce new designs for future opening.

The maze in an ancient device, in its simplest forms going back to 30,000 B.C. Its image is universal thus making it an appropriate art and leisure form for crossing the barriers of language and custom.

If, as a Kewite, you are responsible for a piece of ground suitable for a maze we can advise on the procedures. A pavement maze sits in the grass and can be mowed over as if it were not there thus transforming a grass area and providing endless pleasure for children and adults alike.

The modern symbolic maze incorporates all sorts of images including a story of the place and people involved in its conception; anything really. If you are interested in a maze I can give free advice. Please write to me at Silk Mill House, Winchester Street, Whitchurch, Hampshire, England (Telephone 025689 2837).



*In June 1989, showing left to right: George Fuller, Tony Schilling and Ian McDowell in Pukekura Park, New Plymouth, New Zealand on 1.11.88.
(Photo sent by Tony Schilling — Wakehurst)*

KEWITES AT THE 1989 WORLD CONGRESS OF THE INTERNATIONAL FEDERATION OF PARKS AND RECREATION ADMINISTRATION

Greensboro, North Carolina, U.S.A.



The Kew Table, *Left to right back row:* James Thomas (1946) Townsville, N. Queensland, Australia; Errol Scarr (1967) Durban, South Africa; Neil Gilmour (1952) Sheffield, England; Phil Jew (1955) Auckland, New Zealand. *Left to right front row:* Mrs. Jean Thomas; Ronald James* Harare, Zimbabwe; Mrs. Sheila Gilmour (1951); Gilbert Briscoe (1961) Johannesburg, South Africa.

*Not a Kewite but was allowed to join the group when he confessed he had always wished he could have studied at Kew!
(*Photo kindly sent by Neil Gilmour — Ed.*)

KEW INTRODUCES GARDEN DESIGN COURSES (1990)

For the first time, the Royal Botanic Gardens, Kew, are this year offering a series of courses in garden design.

Using Kew's unique resources of plant collections and horticultural skills, the Adult Education Section is organising three five-week courses — in April-May, June-July and October-November.

They will be headed by John Brookes, who is principal of the Clock House School of Garden Design at Denmans in West Sussex and one of the most innovative and exciting of British garden designers.

The five-week course is tailored to suit the needs of both the professional looking for a new approach and enthusiastic amateurs seeking different avenues in their lives. The tuition fee is £1,500.00 plus VAT at 15%.

Details may be obtained from Gail Bromley, Education Section, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB. Tel: 081-940 1171 Ext. 4613.

(*Of topical interest! — Hon. Editor*)

TREE PLANTING SPONSORED BY ANCIENT ORDER OF FORESTERS WEDNESDAY 5th APRIL 1989

To celebrate the 25th anniversary of the Ancient Order of Foresters, Viscount Tonypany, P.C., D.C.L., planted one of 25 beech trees on behalf of the Charity Stewards. The ceremony took place on Wednesday 5th April in Queen Charlotte's Cottage Grounds. This area is managed for conservation, education and recreation. Wild origin species of oaks, birch and pine have been planted in groves to enrich the diversity of woodland habitats. The 25 beech trees planted by the Ancient Order of Foresters will make an important contribution to the development of this conservation area.

Note: Contributing Courts of A.o.F.

Court 'Edmonton's Pride' (1351) is at Edmonton, North London.

Court 'Abbey Foresters' (1940) is at Kilburn, North London.

Court 'Tatton' (2098) is at Altrincham, Cheshire.

Court 'Pride of Walton' (2678) is at Felixstowe, Suffolk.

Court 'Victory's Pride' (3067) is at Sutton-on-Hull, North Humberside.

Court 'Eleanor Rummyn' (3182) is at Leatherhead, Surrey.

Court 'Foresters' Home' (3252) is at Tottenham, North London.

Court 'Pride of St. James' (3732) is at Wood Green, North London.

Court 'Chamberlayne' (4988) is at Eastleigh, Hampshire.

Court 'Maid Marian' (5237) is at Gillingham, Kent.

Court 'Pride of Mason's Hill' (5545) is at Bromley, Kent

Court 2604 is at Ipswich, Suffolk.

Court 5671 is administered by London District.

STORM DAMAGE RESEARCH HELPS FUTURE PLANTING PLANS:

Report of the Wind Blown Tree Survey — Press Briefing Notes

Research into the damage to trees caused by the great storm of 1987 has provided useful new information for plantsmen and landscape architects.

The storm which felled 15 million trees in south and east England in the early hours of 16 October provided a unique opportunity for research. Seizing on this, the Countryside Commission's Task Force Trees and the Jodrell Laboratory of the Royal Botanic Gardens, Kew, asked both professional tree growers and members of the public to report on damaged trees.

The result was information on 4,500 trees — mostly large and in woodlands or plantations. The two organisations are very grateful to everyone who helped by completing questionnaires, particularly those who also sent photographs. Preliminary results from the survey are now available and have revealed some interesting findings. More detailed analysis of the data is continuing and will be reported in due course.

An important outcome of the survey has been a far better record of the types of roots which trees develop than anything previously available. It has also produced a good picture of normal rooting depth.

- Surprisingly, very few trees had tap roots: most had a spreading system with deeper roots growing down from it at intervals.
- The main roots were between ½m and 1½m deep (20 ins. to about 5 ft.) and most around 1m (just over 3 ft.). The deepest recorded in the survey were about 3m (just over 10 ft.). (Figures are for roots near to the trunk: other research indicates that roots could be somewhat deeper further out.)
- Roots at only 1m from the trunk are relatively narrow. Root widths at 1m from the trunk, from a sample of 760 trees are:

fibrous	— 3.5 per cent
2 — 5 cms (1 — 2 ins.)	— 23 per cent

5 — 10 cms (2 — 4 ins.)	— 40 per cent
over 10 cms (4 ins.)	— 33.5 per cent

It is striking how relatively narrow the roots are at this distance from the trunk. People realise the importance of roots which are wider than 10 cm (4 ins.) to a tree and its stability. They could, however, easily think that narrower roots are of little significance and that they could safely be cut when digging trenches for services or building. Yet the above results, which relate to the main roots of trees, suggest that severing more than a few roots of 10 cm in diameter or below could cause the instability of a tree, or even its death. Great care should therefore be taken when digging trenches, and they should be dug as far away from trees as is practical.

Other observations drawn from the survey returns include:

- Most wind blown trees reported on had little or no disease. Few were in an advanced stage of decline. In fact, diseased trees with a thin leaf canopy often survived because they offered less wind resistance than the healthy trees around them, yet had adequate support from their roots.
- Although, as would be expected, large numbers of some common species of trees were recorded as having been blown down — e.g. oak, beech, pine, lime, spruce and birch species — other common trees were recorded in very low numbers — e.g. willow, horse-chestnut, alder and **Prunus** species (cherries). Pear and laburnum were not recorded on the forms at all.

Possible explanations:

- a) Soils were very wet at the time of the storm and trees growing both in sand and clay were blown over in large numbers. However, willow and alder normally grow in wet soils and perhaps they are naturally more stable in wet conditions than other species which grow in soils that are only periodically wet. Alternatively, willows may have been under-recorded on the survey forms because wet soils made access difficult.
 - b) Horse-chestnuts tended to have lost branches, rather than be blown down, and may have shed enough wind resistance to enable the main trunk to remain standing.
- Most trees fell in the direction of the prevailing wind, although where local topography or an obstruction caused the wind to eddy there was a higher chance of trees falling in various directions. This was particularly true in woodland. (Although the survey does not deal with street trees it seems possible that the reason many fell away from houses may have been because wind reflected off the buildings put stress on the trees from a direction that they were not normally subjected to and to which they had developed little resistance.)
 - Trees growing in isolation were less susceptible to gusts of wind than those grown in groups. Predictions that when sheltering or perimeter trees were destroyed there would be devastation in plantations proved true. Trees normally protected from wind develop with reduced resistance and suffer from restricting root competition.

Detailed analysis is continuing, and additional information about trees which blew down — particularly the smaller ones which were generally not recorded in the original survey — would be welcome. They should be sent to: Dr. David Cutler, The Jodrell Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB. Further results will be reported in due course.

Heather MacIlwaine/Michael Carroll — Task Force Trees, the Countryside Commission

David Cutler — Royal Botanic Gardens, Kew

Note for Members

Dr. David Cutler,
Jodrell Laboratory,
Royal Botanic Gardens, Kew.
Tel: 081-940 1171

or Barbara Hall,
Publicity Adviser,
Task Force Trees.
Tel: 081-858 4154

1. Task Force Trees is a special unit of the Countryside Commission set up to repair as quickly as possible the damage done to the landscape of town and country by the destruction of amenity trees and woodlands in the storm of 16 October 1987.

- The wind blown tree survey was commissioned and partly financed by Task Force Trees.
2. The Jodrell Laboratory is the main research laboratory at the Royal Botanic Gardens, Kew. It has four sections, one of which is the plant anatomy section where the work on the wind blown tree project is being carried out.

OYSTER FAN AND SPIRAL STACKS 1988

Two glass sculptures presented to Kew



Jonathan Froud with Ernie Hankinson and Pilkington Glass Cowley Hill. Commissioned and loaned by Pilkington Glass. On display in the Orchid Section of the Princess of Wales Conservatory.

HEADS OF DEPARTMENTS AT KEW



Back Row, left to right: John Laving (Administration), Dr. Brinsley Burbidge (IED), Tom Bailey (B & M), Professor M. Bennet (Jodrell), John Simmons (LCD). Front Row, left to right: Professor Gren Lucas (Herbarium and Deputy Director), Professor G. T. Prance (Director), Rebecca Bower (Finance).

NEWS OF KEWITES AT HOME AND ABROAD IN 1989

Compiled by **WINIFRED WORTH** and **HUGH FLOWER**

Edited by **MARTIN J. S. SANDS**

Jonathan Allin, currently a student at Kew, was the 1989 winner of the Martyr Award for which the prize was a trip to the U.S.A. Western Regional Conference of the International Plant Propagators Society (I.P.P.S.) and £1,500 to finance it. Besides attending the conference Jonathan was able to visit various Botanic Gardens and areas of horticultural interest. His verdict — “a very valuable experience”.

Susyn Andrews, Gardens Verifier in the Herbarium, attended the Flora Malesiana Symposium and Workshops in Leiden at the end of August together with several colleagues from the Herbarium.

Best wishes on his retirement in August 1989, to **Bill Bailey**, a Principal Scientific Officer in the Information and Education Department and formerly Quarantine Officer at Kew.

On 21st June, **Jean Bartholomeusz** was promoted to Executive Officer in the Administration Department. We extend our best wishes to her.

We are pleased to record that **Des Bennett** (Finance Section, Administration Department) was promoted in April 1989 to Higher Executive Officer.

Congratulations to **Professor Michael Bennett**, Keeper of the Jodrell Laboratory, who was appointed as an Honorary Professor in the Department of Pure and Applied Biology of the University of Wales, College of Cardiff, for five years from 1st January 1989. Professor Bennett

attended the 19th Stadler Genetics Symposium from 13th-15th March, at Columbia, Missouri, where he gave an invited lecture on "What are the limits of sexual crosses for genetic manipulations". In April he was a participant in a workshop on "Biotechnology and Developing Countries — evaluation of research applications in Africa" organised at R.B.G., Kew by Monsanto. As a member of the international scientific advisory committee and a co-editor of the proceedings — "Chromosomes Today" — volume 10, he attended the 10th International Chromosome Conference at Uppsala, Sweden, from 19th-22nd June, where he co-presented three posters. As a BP Venture Research Fellow, he attended the BP Venture Research Conference, in London, from 27th-28th June, where he co-presented work on 3-D architecture in plant and animal nuclei. Later, on 1st November, he gave an invited lecture to BP staff at Britannic House on "Genes and Nuclear spaghetti". Previously he attended the 40th A.I.B.S. meeting at Toronto, Canada from 6th-10th August, where he gave the inaugural lecture on "Some outstanding questions about nuclear architecture and chromosome evolution", and at the first G. L. Stebbins Symposium — "New Developments in Plant Evolution". In September he was an invited participant at a Euro workshop on Core Biology of Plant Breeding, at Reading University, where he presented a poster on "Examples of research on plant reproduction at Kew".

At the end of April **Ian Beyer** (Deputy Curator and former Vice President of the Guild) attended a conference in Reunion on Tropical Botanic Gardens Conservation and Development and then on 10th May he attended the House of Lords with Gren Lucas, John Simmons and Valerie Walley to receive a cheque from the Ancient Order of Foresters to help with the replanting of the Arboretum after the hurricane damage. (On 5th April the Order had planted 25 trees in the Queen's Cottage Garden.) In September, as Chairman of the Collections Committee of the National Council for the Conservation of Plants and Gardens (N.C.C.P.G.), Ian presented a paper at the annual meeting and then in October he delivered another on "Conservatories at Kew" at a Symposium given by Brooklyn Botanical Garden. As Chairman of Kew's Events Committee Ian was much involved with the arrival, in the Princess of Wales Conservatory, of Santa and his reindeer at Christmas.

Barrie Blewett (General Service Unit, Herbarium) and Leonard Forman (q.v.) left in October for Brunei to spend a month carrying out fieldwork in connection with the Brunei Check-list Project.

Our sincere congratulations to **Rebecca Bower** on her promotion in March 1989 to Financial Controller (Administration Department) and we are delighted that she is now our new Treasurer, serving also on the Guild Centenary Subcommittee.

In May **Peter Boyce** (Herbarium) joined John and Soejatmi Dransfield (q.v.) for fieldwork under the Brunei Forest Department/Kew collaboration programme. He returned to Kew in early July and then, at the end of September, he left for South Korea to accompany Tony Kirkham (q.v.) and Mark Flanagan on a six week expedition.

Congratulations to **Christine Brandt** (Information and Education Department) on her promotion in December to the grade of Information Officer.

We extend our best wishes to **Margaret Brind** who retired at the end of May after a long career at Kew. Margaret joined the staff as a typist in November 1955 and became Typing Pool Manager in 1975. We thank her most warmly for her many years of devoted service.

It is good to have news of **Gilbert Briscoe** (1961) who has been elected President of the Institute of Parks and Recreation Administration for South Africa. Gilbert received his initial training with the Johannesburg City Council and the Pretoria Technical College before coming to Kew. On his return he obtained the Diploma in Parks and Recreation Administration. His work in this field of horticulture led to posts in Johannesburg, Soweto and with the West Rand Administration Board at which time he took a degree in Administration from the University of South Africa. In 1986 he returned to Johannesburg as Deputy General Manager of the Parks and Recreation Department. Gilbert has served on the Executive of the Institute since 1969 and has edited their journal '*Parks Administration*' for more than ten years. Since 1977 he has served on the Commission of the International Federation of Parks and Recreation Administration and is editor of the International Bulletin. A busy man!

Congratulations to **Gail Bromley**, Guide Lecturer in the Information and Education Department, on her promotion to Senior Scientific Officer, with effect from 1st January 1989.

Ted Brown, formerly an Administrative Officer in the Kew Shop, transferred to the Herbarium office in April 1989.

Dr. Dick Brummitt (Herbarium) spent 12 days in Malawi in June working with the team from W. S. Atkins International (Epsom) in a survey for the Central Electricity Generating Board of a site in the north of the country where uranium has been found.

After five years in England and having been awarded a Reading University Ph.D., **André M. de Carvalho** returned to Brazil in June to take up his post as Curator of the Cocoa Research Institute's Herbarium in Itabuna, Bahia. Much of his research time for the doctorate involved working in the Herbarium at Kew and our very best wishes go with him.

Congratulations to **Martin Cheek** (Herbarium) on being awarded a D.Phil. from Wadham College, Oxford for his thesis on the systematic anatomy of Meliaceae seeds in January 1989. Later in the year he left for Madagascar at the end of October to spend two months collecting in the northern part of the island visiting classical localities as well as in the dryer, western half, continuing his work on Meliaceae, in particular searching for the monotypic fifth sub-family, *Neomangenotia*.

Our best wishes go to **Dr. Derk Clayton**, formerly Deputy Keeper of the Herbarium, who retired in July. Happily Derek is still to be seen working in the Herbarium at regular and frequent intervals.

Henry Cocker (1933), a Life Member of the Guild, moved during the year to a private rest home in the Province of Venezia in Italy which he is finding very comfortable. He is working on his autobiography, relevant extracts from which he will send to the Guild from time to time.

Jim Comber (1955) of Bangkok visited Kew for five weeks in June and July to continue his work on the orchids of Java.

On 6th March 1989 **Frances Cook** (Economic Plants section, Herbarium) joined Janet Terry (q.v.) on a collecting expedition to Botswana, returning on 17th April.

In November **David Cooke** (Temperate section of the Living Collections Department) accompanied John and Soejatmi Dransfield (q.v.) to Madagascar in order to collect palms and bamboos.

Mark Coode (Editor of the Kew Bulletin), was in Geneva for discussions with Professor Weibel about Elaeocarpaceae and then, together with colleagues from the Herbarium, attended the Flora Malesiana Symposium and Workshops in Leiden at the end of August. In October he travelled to Sulawesi to undertake fieldwork for two months.

Our congratulations to **Dr. Tom Cope** (Grass Section, Herbarium) on his promotion from 1st January 1989 to Principal Scientific Officer.

Our best wishes go to **Tom Coventry** (1924) who celebrated his 90th birthday on 27th October. After leaving Kew, Tom worked for five years at Chorlton New Park in Manchester where he helped in its construction, and then in its maintenance once it was open to the public.

Congratulations to **Dr. Phillip Cribb** who was appointed Assistant Keeper of Monocots in September following the retirement of Dr. Clayton. In August he travelled to Southern California on a lecture tour and in October was in Bogor, Indonesia to work in the Herbarium there. In November he visited Sarawak and Sabah to undertake fieldwork and represented Kew at the 130th Anniversary of Singapore Botanic Gardens.

In July **Dr. David Cutler** (Jodrell Laboratory) accompanied Dr. Ray Harley to a meeting in Oxford on the "Interactions between Ants and Plants" and then in November he travelled to Israel to work in the Hebrew University of Jerusalem with Professor Fahun with whom he is writing a book on the anatomy of xerophytic plants.

On 30th September Mary Short, who joined the staff as Assistant Librarian in February, became **Mary Dawson**. Our congratulations on her marriage and our very best wishes for the future.

Congratulations to **Suzy Dickerson** (Herbarium) on her promotion to Higher Scientific Officer from 1st January 1989.

Joanne Doorne, currently a student at Kew, spent a year at Longwood Gardens, Pennsylvania assisting Patrick Nutt (q.v.) in the restructuring and maintenance of the famous Waterlily area.

Dr. John Dransfield went to Kepong, Malaysia, in January 1989 to advise on the silviculture of rattans for an F.A.O./U.N.D.P. funded regional programme. In May he presented a paper on rattans at the Plant Resources of South East Asia meeting in Jakarta and then went on to Brunei for fieldwork accompanied by his wife Soejatmi (q.v.) and Peter Boyce (q.v.). Both John and Soejatmi attended the Flora Malesiana Symposium in Leiden in August and then, in September, John returned to Kepong for the second phase of the F.A.O./U.N.D.P. rattan project after which they both went to Madagascar for six weeks palm and bamboo hunting with David Cooke (q.v.).

We congratulate **Dr. Soejatmi Dransfield** on her appointment in October as Honorary Research Fellow of the Royal Botanic Gardens in recognition of her work on bamboos. In 1989 she travelled extensively with her husband, John (q.v.) in south-east Asia and Madagascar, and in May gave a paper on bamboos at the Plant Resources of South East Asia meeting in Jakarta.

We were pleased to hear, in 1989, from **Desmond Evans** (1962) that he and his wife run a flourishing nursery near Chepstow where they stock many unusual trees, shrubs and other plants.

Adam Faruk (Herbarium) left Kew in September to start a degree course at University College, London but he hopes to return from time to time to continue his project on Bornean Rhamnaceae.

In September 1989, **Dr. Linda Fellows** (Jodrell Laboratory) lectured at an American Chemical Society meeting in Miami Beach and then in October visited Yugoslavia to discuss collaboration on plant chemical studies with colleagues at the Universities of Novi Sad and Split. While in Split she was taken to meet Dr. fra. Jure Radić, Head of a Theological Seminary in Makarska, who is a specialist on the flora of the Croatia coast. Later in the year Linda was made an Honorary Research Associate of Royal Holloway and Bedford New College.

Many congratulations to **Dr. Keith Ferguson** on his appointment in July to the post of Deputy to the Keeper of the Herbarium. In April Keith spent two weeks at the University of Oklahoma to complete another manuscript on the pollen of the tribe Swatzieae (Leguminosae), and in November he visited the Herbarium of Palynology in Paris for discussion on the Flore des Mascareignes.

Congratulations to **David Field** on his promotion in May to Principal Scientific Officer. He is now Head of the Economic and Conservation Section of the Herbarium in succession to Gerald Wickens.

Our best wishes for their future together go to **Laura Fitt** and **Rupert Hastings**, both of the Economic and Conservation Section of the Herbarium, who were married on 10th June.

In September **Mark Flanagan** (Living Collections Department) with Tony Kirkham (q.v.) and Peter Boyce went on a six week expedition in South Korea.

Hans Fleigner, who is Assistant Curator of the Temperate Section, was a member of the team which went to Tucson, Arizona in September to advise the Space Biosphere Venture on the techniques necessary for the functioning of analogue eco-systems.

In September **Hugh Flower** (1976) moved from St. Dunstan's in Woking to be assistant in the parish of St. Joseph's in Epsom where Kewites will be most welcome to visit him.

Congratulations to **Leonard Forman** who became a genus in August 1988! — *Formanodendron* gen. nov. Nixon and Crepet in the Fagaceae. In company with others from Kew Leonard attended the Flora Malesiana Symposium and Workshops in Leiden towards the end of August, and in October, accompanied by Barrie Blewett, he travelled to Brunei for fieldwork in connection with the Brunei Flora Project.

Best wishes to **John Fulcher** (Administration Department) on his promotion in April to become an Executive Officer.

Carol Furness (Palynology Unit, Herbarium) accompanied Madeline Harley (q.v.) on a visit to Morocco in May to attend the first Symposium of African Palynology in Rabat.

Alex George, a former Botanical Liaison Officer at Kew and a member of the Guild, visited the Herbarium in October for discussions about the ongoing Flora of Australia. Earlier, after attending the Flora Malesiana Symposium in Leiden, which was also attended by several of his former colleagues from Kew, he gave a short paper on the far north-west of Australia at a two-day Symposium at Kew covering some of the results of the 1988 Kimberley Research Project.

Mike Gilbert, who has worked for several years in the Herbarium on the Ethiopian flora attended a Euphorbiaceae Symposium in Missouri, with several colleagues, in August and then spent two months from September in Ethiopia doing fieldwork in the west and south of the country.

A note in the Herbarium news for 4th August tells us that there are approximately 10,000 specimens in the Kew Herbarium collected by **Jan Gillett** since 1951. Is this a record? Jan, who was, for some time, on the staff and then worked in Nairobi for many years, retired to Kew in 1984 and was made an Honorary Research Association in 1986.

We are pleased to record the promotion in August of **Laura Giuffrida** of the Information and Education Department, to the grade of Higher Graphics Officer.

In April, **David Goyder** (Herbarium) and Gerald Pope (q.v.) left for an eight week plant collecting trip in Zambia and Malawi and were later joined by Alan Radcliffe-Smith (q.v.), also of the Herbarium.

Peter Green, formerly Deputy Director, Keeper of the Herbarium and a past President of the Guild, who is now an Honorary Research Associate, left on 5th January 1989 to attend the joint Publications and Research Committees Meeting at the Pacific Tropical Botanic Gardens in Hawaii. On his way back he worked in the herbaria at the Missouri Botanical Garden, St. Louis, the Field Museum, Chicago and the New York Botanical Gardens, arriving home on 9th February.

After almost 21 years on the Herbarium staff **Dr. Chris Grey-Wilson** left Kew at the end of December. He will be greatly missed but we wish him every success in the future as he takes up his new post as Editor for the Alpine Garden Society. Earlier in the year on 22nd August he left with Sue Zmarzty (q.v.) for six weeks fieldwork in Nepal around Kachenjunga. There they were joined by three of the staff from the Edinburgh Botanic Garden.

Congratulations to **Pat Halliday**, Herbarium, who was awarded a Grenfell Medal at the November Royal Horticultural Society's show for her Rhododendron line drawings.

Welcome to **Archie Hanson** who, in November, replaced Ian Prince as Office Keeper at Kew.

Madeline Harley (Palynology Unit, Herbarium) and **Carol Furness** (q.v.) visited Morocco in May to attend the first Symposium of African Palynology in Rabat.

In early July **Dr. Ray Harley** (Herbarium) attended a three day meeting in Oxford on "Interactions between Ants and Plants". He presented a poster entitled "The greasy pole syndrome". **David Cutler** (q.v.) and **Hazel Wilkinson** from the Jodrell Laboratory, also attended.

Congratulations to **Rupert Hastings** (Economic and Conservation Section, Herbarium) on his marriage to **Laura Fitt** (q.v.) in June. We extend to them our very best wishes for the future.

Congratulations to **Nigel Hepper**, a former Secretary and then Vice President of the Guild, and his collaborators for the splendid publication '*Plant Hunting for Kew*' issued in time to make an ideal 1989 Christmas present. Nigel retired officially in March last year but we are pleased to say he is still working in the Herbarium, retained for two years on part-time contract. In January 1989 Nigel was an examiner at the University of Lyon for a Ph.D. thesis on the Botanical Gardens bas-reliefs of Kamak, Egypt. For the first fortnight in May, he visited Cameroon as an O.D.A. consultant preparing the first annual report on the Genetic Resources Rainforest Project based at Limbe Botanic Garden. He was later in Budapest as a delegate to the International Association of Botanic Gardens meeting and Heidelberg for the Sumerian Agriculture

(archaeological) Group. In October he lectured on West African botanical exploration during a weekend Symposium at Missouri Botanic Garden held on the centenary of the death of the founder, Henry Shaw. While in the U.S.A. he lectured also in Norfolk, Virginia and visited Waterloo University in Canada. In September he was awarded the Kew Medal (presented by Professor David Bellamy) for 'his exceptional and devoted service and as an ambassador for Kew at home and abroad'.

Nicholas Hind (Herbarium) obtained his Ph.D. from Reading University in 1989 and we offer him our congratulations.

Congratulations to **Mrs. Susan Holmes** (Herbarium) on being made an Honorary Fellow of the Cactus and Succulent Society of America in 1989. In August Susan presented a paper to the Euphorbiaceae Conference at Missouri Botanical Gardens.

Our best wishes go to **Professor Eric Holttum**, an Honorary Research Fellow in the Herbarium, who celebrated his 94th birthday on 20th July.

After two and a half years as a Clerical Officer in the Herbarium Office, **Susan Howes** left in February to take up a post with Richmond Council. Our good wishes go with her.

Vicki Humphrey, Kew's first Paper Conservator, resigned at the end of September to take up a post in Adelaide as Senior Conservator of the Paper Branch of the South Australian State Conservation Centre. She will be greatly missed but we wish her every success.

Dr. David Hunt (Herbarium) travelled to Ecuador and the Galapagos Islands in December to collect material of Cactaceae for taxonomic and anatomical research.

Mike Jackson (1976) is now a Senior Lecturer at South London College, West Norwood, where he has worked for the last five years. He hopes to create a centre of horticultural excellence with a new range of courses to meet the needs of students coming in under the equal opportunities policies. He would welcome visits from Kewites, past and present.

In September, former Australian Botanic Liaison Officer **Dr. Surrey Jacobs**, a member of the Guild, visited Kew to present two talks at the two day '1988 Kimberley Research Project Symposium'.

Margaret Johnson (Jodrell Laboratory) attended the VI O.P.T.I.M.A. (Organisation for the Phyto-Taxonomic Investigation of the Mediterranean Area) meeting in September held in Delphi, Greece and displayed two poster exhibits of her work on Turkish *Bellevalia* and *Ornithogalum*.

Dr. Ronald Keay who worked at Kew from 1951 to 1957 completed a revision of his "Trees of Nigeria" in 1989. To assist him in undertaking the work, he had been granted an Emeritus Fellowship by the Leverhulme Trust in 1987. Dr. Keay is currently President of the Institute of Biology and was formerly Executive Secretary of the Royal Society.

In June **Dr. Ann Kenton** attended the 10th International Chromosome Conference in Uppsala, and a Kew poster exhibit (prepared in collaboration with Margaret Johnson (q.v.)) was displayed entitled "Very high polyploidy in *Voanioala gerardii* (Palmae)". Ann presented another poster exhibit on "Interchange heterozygosity in *Gibasis pulchella*". In October she gave a lecture in Gatersleben, East Germany and stayed there for a week to take part in the discussions with Doctors Schubert and Rieger and meet other researchers.

In September **Tony Kirkham** (Supervisor, Arboretum) accompanied Peter Boyce (q.v.) and Mark Flanagan on a six week expedition to South Korea.

We welcome **Don Kirkup** (ex Reading University) who joined the Herbarium staff in May on a two year contract to prepare an account of *Grewia* (Tiliaceae) for the Flora of Tropical East Africa and to help with work on petaloid monocots.

We welcome **Dr. Marie Kurmann** who was appointed in January 1989 as a Kew Postdoctoral Fellow to work on the morphology and ultra-structure of Gymnosperm pollen. In August Marie presented a paper on the pollen of Coniferae at the annual Botanical Society of America (A.I.B.S.) meetings in Toronto.

We welcome **Thomas Laessoe**, formerly from the Botanical Museum, Copenhagen, who joined the Mycology Section on 30th October as a Senior Scientific Officer to work principally on the tunicate Pyrenomycetes.

A warm welcome to **John Lavin** who took up his appointment as Head of Administration on 18th September, 1989.

Ian Leese (1982) was seconded from Capel Manor on 24th July to be Acting Head of the School of Horticulture at Kew following the resignation of Graham Bass earlier in the year. Belated congratulations to Ian and his wife on the birth of a son, Alexander, in November, 1988.

On 13th September **Beverley Lewis** (Orchid Section, Herbarium) left for an 11 week collecting trip to Vanuatu.

In January 1989, **Gwilym Lewis** (Herbarium) attended the 40th Brazilian Botanical Congress in Cuiaba after which he joined Colin Hughes of the Oxford Forestry Institute in Honduras for a two months' journey overland through El Salvador, Guatemala, Belize and Southern Mexico, collecting mainly in the genus *Caesalpinia* (Leguminosae) as part of his Ph.D. studies. At the end of March Gwilym flew to Manaus to present a paper at the Royal Geographical Society's Maraca Symposium.

In February, 1989 **John Lewis** (1957) resumed his research on the botanical illustrations of W. H. Fitch and so will be visiting Kew frequently for the next two or three years.

In June, **Bill Loader**, Senior Executive Officer in charge of computers, joined Gren Lucas at the New York Botanical Garden to discuss the loading onto computer of the Index Kewensis and a collaborative venture to create an herbarium management system programme.

John Lonsdale (Wakehurst Place, Technical Section) was a member of the team which went to Tucson Arizona in September to advise the Space Biosphere Venture on the techniques necessary for the functioning of analog ecosystems.

Barbara Lowry gained her promotion in May to Administrative Officer and now works in the Library. Best wishes to her in her new post.

Ann Lucas, who has worked at Kew for several years, was promoted to Typing Pool Manager at the end of May following the retirement of Margaret Brind (q.v.). We offer our congratulations and wish her every success.

Congratulations to the Keeper of the Herbarium and Deputy Director, **Gren Lucas**, on receiving the title of Visiting Professor in the Department of Botany at Reading University in 1989. A very busy year for him included lecturing at the opening of the exhibition on Curtis's Botanical Magazine in Washington in January and a similar lecture at the New York Botanical Garden in June when the exhibition was transferred there. In October he attended the C.I.T.E.S. Conference in Lausanne and in November the meeting of the Taxonomic Data Bases Working Group in the Canary Islands.

We are pleased to publish a photograph sent (opposite) to us by **Mike Lycett** (1960) of his distant relatives Sir Henry and Lady Price on the occasion of their wedding in 1931. It was taken at the rear of Wakehurst Place. Sir Henry, who was the last private owner of Wakehurst had bought it from Gerald Loder the year before.

Welcome to **Dr. Terry Macfarlane** from Perth, who took over from Karen Wilson (q.v.) in September the post of Australian Botanical Liaison Officer in the Herbarium. His research interests are with *Pultenaea* and relatives in Leguminosae, Gramineae and several other monocot families.

In February 1989, **Brian Mathew** (Herbarium) presented a paper at the International Symposium on Bulbous and Cormous Plants at Irvine, California and spent a further week on fieldwork in the State.

Michael Maunder (1986) who works in the Planning Unit of the Living Collections Department, took over from Winifred Worth as Secretary of the Guild at the A.G.M. in September. During September he went to Tucson, Arizona with the Director Professor Prance (q.v.), Hans Fleigner (q.v.), John Lonsdale (q.v.) and John Woodhams (q.v.) as horticultural advisors to the Space Biosphere Venture on the techniques necessary for the functioning of analog ecosystems. In October and November he spent a month plant collecting in Southern Japan. Mike has been appointed Sub Chairman of the Plants Committee for the I.U.C.N. Species Survival Commission — Reintroductions Specialist Group.



Details from Mike Lycett — *Left to right*: Lady Price, Sir Henry Price, my Father's Uncle Bill and Aunt Elsie, my parents and Mrs. Hulse (Elsie's mother).

Dr. Simon Mayo (Herbarium) returned in early February 1989 from two months of fieldwork in Brazil and then in December was in Munich on a study visit to the Herbarium there.

Robert Mitchell, a student at Kew from 1983 to 1986 and now working in the Micropropagation Unit, accompanied Joyce Stewart (q.v.) to the International Botanic Gardens Conservation Congress in Mauritius in April 1989. Over the last 18 months Robert has been running the Sainsbury Orchid Conservation Project in the course of which he has been able to isolate a fungus F414 which has given some very dramatic germination results.

Dr. A. A. Munir, a former Australian Botanical Liaison Officer at Kew, now at Adelaide, visited the Herbarium in August to study Australian Verbenaceae.

A warm welcome to **Anne Nicholson**, a sculptor from Brockley in London who won the first official Artist-in-Residence Bursary at Kew. The Bursary, worth £3,000, is in memory of Norman Stevens A.R.A. and is sponsored by C.C.A. Galleries Ltd. Anne was one of 450 artists who sent in submissions to the Selection Committee who were particularly impressed by the way she had given special thought to the Bursary's use from the Gardens' point of view as well as her own.

From August to October 1989, **Eimer Nic Lughadha**, joined a team from the Institute of Systematic Botany, Utrecht on a collecting trip in the Wai-wai area of Guyana for the Flora of the Guianas Project.

Our best wishes for a happy retirement go to **Joan Noble** who left Kew in June after 14 years service on the switchboard. Her friendly voice will be much missed.

John Norris (1946) a Life Member and Past President of the Guild moved with his wife to Belgium to be near their families who both live on the Continent. Their presence at Guild functions will be greatly missed.

Patrick Nutt (1953) has been involved in the reconstruction of the famous Waterlily area at Longwood Gardens, Pennsylvania with which he has been closely associated since its inception in 1957 when he was chosen by George H. Pring (1906) to design it. It was Patrick who, in 1960 made the crosses between *Victoria cruziana* and *V. amazonica* which resulted in the Longwood *Victoria* hybrid, seeds of which are still much in demand worldwide.

We welcome **Michael Parker** who joined the Media Resources team in May as audio-visual technician.

Congratulations to **Dr. David Pegler** (Herbarium) on the award of the degree of Doctor of Science from the University of London. In August, with Brian Spooner (q.v.), he attended the 10th Congress of European Mycologists at Tallinn, Estonia and followed this with a field trip round Viljandi.

Brian Pitcher (1960), having worked in the Palm House under George Anderson when it was last re-opened in 1959, found it a special joy to have a preview of the latest renovation when he visited Kew in August. The only sad note on the day was to discover that John Prunden (q.v.), who was a devoted gardener in the Palm House at that time, had died two years ago. He will be remembered by many who were at Kew between 1956 and 1968.

Congratulations to **Diana Polhill** on her promotion in January 1989 to Higher Scientific Officer.

Dr. Roger Polhill (an Assistant Keeper in the Herbarium) attended the Flora Malesiana Symposium in Leiden in August together with several colleagues from Kew.

Gerald Pope (Krukoff Curator of African Botany at Kew) accompanied David Goyder (q.v.) and Alan Radcliffe-Smith on an eight week collecting trip to Zambia and Malawi in April and May.

During 1989, on many occasions, the Director, **Professor Ghilleen Prance** gave lectures and took part in workshops and seminars on the topics of the Royal Botanic Gardens, Kew, his research interests in the Chrysobalanaceae and Lecythidaceae and various aspects of the Brazilian rainforests. He also gave several interviews for BBC Radio, including a Brazilian link-up for a live rainforest discussion and appeared on, or gave background information for, BBC, Granada and Sky Television. Throughout the year he received many important visitors to Kew including the Prime Minister, the Rt. Hon. Margaret Thatcher, and the Ambassador of South Korea, and was among a number of other rainforest experts who dined at Highgrove with HRH The Prince of Wales. During 1989 he was President of the Systematics Association, a Board Member of W.W.F. International, attending meetings in Geneva and Montreaux, and as a botanical advisor he attended the Conference of Museum Directors and the Commonwealth War Graves Commission. He was appointed a Trustee of the Horniman Museum, in October elected an Overseas Fellow of the Royal Swedish Academy of Sciences and in November, of the American Association for the Advancement of Science. He was in the U.S.A. in February and September when he visited Tucson, Arizona, with other members of the Kew staff to advise the Space Biosphere Venture on the techniques necessary for the functioning of analog ecosystems; in Denmark in March; Brazil in May, August and October; Toronto, Canada in August and Amsterdam in September. (Also elected an *Honorary Member of the Rotary Club of Kew Gardens* — Ed.)

Congratulations to **Dr. Robin Probert** (Plant Physiology, Wakehurst Place) on his promotion to Senior Scientific Officer, effective from 1st January 1989.

While visiting Kew in August 1989 Brian Pitcher (q.v.) called on **John Prunden** in Chiswick only to find that he had died two years ago. John was a refugee from Estonia who had earlier suffered torture under the Russians. Having travelled the world as a merchant seaman he settled in Chiswick and worked in the Palm House as Gardener Grade I under George Anderson. He was a devoted member of the gardening staff (1956-68) and well liked by many colleagues.

In April 1989 **Alan Radcliffe-Smith** (Herbarium) joined Gerald Pope and David Goyder (q.v.) on a plant collecting trip in Zambia and Malawi. In August he presented a paper at the Euphorbiaceae Conference at Missouri Botanic Garden.

Dr. Paula Rudall (Jodrell Laboratory) accompanied Alan Radcliffe-Smith and Susan Holmes to the Euphorbiaceae Conference at the Missouri Botanic Gardens in August where she presented a paper.



Roy Rumsey (1932) sent us a photocopy (reproduced above) of the envelope of a letter sent to him by his father while Roy was a student at Kew. It came by the first Air Mail from Australia in 1931. Roy celebrated his 80th birthday last July but is still "young" enough to work in his rose growing nursery in New South Wales for 40-50 hours a week.

Our best wishes go to **Mrs. Ann R. Groot** (né Ryder) (1984). Known professionally as Ann Ryder Groot she is Nursery Supervisor with a landscape and design firm in Indianapolis, U.S.A.

Martin Sands, Co-ordinator in the Herbarium, who for many years was Assistant Secretary to the Guild, is our President Elect and Chairman of the Guild's Centenary Sub-committee. In 1989 Martin attended the Flora Malesiana Symposium and Workshops in Leiden and stayed on for a further few days to work on *Begonias* in the Herbarium. In September he convened a two-day Symposium when 16 papers were presented covering some of the results of the 1988 Kimberley (Australia) Research Project.

In 1989, **John Simmons**, the Curator, gave a paper on "Trees and their future — after the storm" at the Askham Bryan Amenity Technical Conference in January and then, in March, lectured to the Friends of the Cambridge University Botanic Gardens on the "Changing Face of Kew". On 7th April he attended a celebration lunch for all holders of the V.M.H. attended by the Queen Mother, and then in July was guest of honour at the Derbyshire College of Agriculture and Horticulture's prize-giving ceremony. In November, he represented Kew at the Opening of the Bicentennial Conservatory in the Adelaide Botanical Gardens, and, while in Australia, he participated in a field trip to the North Flinders Ranges and studied new development in the botanical gardens of Melbourne, Canberra and Sydney with its two exciting satellite gardens, Mt. Tomah and Mt. Annan.

From the end of September **Dr. David Simpson** (Herbarium) spent seven weeks on fieldwork in West Malaysia and Sabah, joining the Kew contingent in Brunei during October.

Mike Sinnott (Herbaceous and Alpine Section of the Living Collections Department) accompanied Dr. Chris Grey-Wilson and others on their trip to Nepal in August.

We are very sad to report the death on 19th February 1989 of **Jack Skelton** (1977) who was killed while crossing a busy road near his home. Jack was a messenger at Kew for over 12 years and will be remembered by many for his cheerfulness.

Our congratulations to **Brian Spooner** (Herbarium) on his promotion to Principal Scientific Officer as from 1st January 1989. Together with David Pegler (q.v.) Brian attended the 10th Congress of European Mycologists at Tallinn, Estonia in August.

We congratulate **Brian Stannard** (Herbarium) on his promotion to Higher Scientific Officer on 1st January 1989.

Mrs. Joyce Stewart, a Sainsbury Fellow working on orchid conservation at Kew since 1985, spent a few days in April as guest of the Swiss Orchid Society, where she gave a lecture on orchid conservation at the International Colloquium. She went on to Mauritius for the Second International Botanic Gardens Conservation Congress where she organised a symposium on the role of orchids in Botanic Gardens and held a meeting of Orchid Specialists to discuss certification of orchid nurseries.

We regret to report that **Ted Storey** (1952), Treasurer of the Guild for the last five years, had a severe stroke in July. However, we are pleased to say that he was able to spend Christmas day at home. Short letters and visits are welcomed and will help to speed his recovery.

Anne Swithinbank (1979) who works for Gardener's World BBC visited Kew in August for information on poisonous plants. Anne is now a member of the Guild Committee.

John Taylor (1947) of Christchurch, New Zealand, wrote in July to say that he finds himself fully occupied as President of the Canterbury Horticultural Society, a flourishing society with over 2,000 members. He is supervising the renovation of a neglected sports building which is to become the Society's new headquarters. It will include an exhibition hall, lecture rooms, library etc., all to be put to good use in February 1990 when there will be a three day horticultural exhibition — a mini Chelsea — as the Society's contribution to New Zealand's 150th anniversary.

From 4th July to 13th August **Nigel Taylor** (Herbarium) was botanizing in Bahia. Later he spent one week in Palermo and two in Utrecht and Zurich.

Congratulations to **Peter Taylor** (1986) on being awarded a Kew Medal in September 1989 (presented by Professor David Bellamy) for 'the exceptionally high standard which he achieved during his many years at Kew'. He is also to be congratulated on the publication, in November, of his world monograph of *Utricularia*, a truly major work which will undoubtedly be the standard work on the genus for many years to come.

In March and April, 1989 **Janet Terry** (Seed Bank, Wakehurst Place) travelled with Frances Cook (q.v.) to collect in Botswana.

Bob Tomlin (1981) is now employed in grounds maintenance at a college in Melbourne, Australia.

Raymond Townsend (Arboretum) completed his third London Marathon in 1989, raising over £700 for the Queen Mary's Hospital for handicapped children in Carshalton. Well done!

At the request of former Guild Secretary Winifred Worth, **Percy Trevaskis** (1927) sent an interesting account of his career from his early training at Rosemorran near Penzance, via two years and 12 certificates at Kew, to the Imperial Bureau of Entomology at Farnham where he was in charge of the host plants for control of insect pests in the Colonies. From there he went in 1929 to Melbourne, Victoria, where at the request of Alfred Nicholas, inventor of Aspro tablets, he spent seven years creating the garden of his country estate. From pictures which Percy enclosed, one can see that this has grown into a magnificent estate worthy of a progeny of Kew. Later Percy was responsible for the maintenance of Government properties and an adviser to the Victoria National Parks Authority. He was awarded the R.H.S. Victoria Gold Medal in 1976. [Reader please note: we would like the story of your career too; please don't hesitate to write!]

Welcome to **John Tuck** (1970) who has rejoined the Guild after an absence of some ten years since his wife Jenny (Lee 1969) died so tragically. For 14 years John was a Grounds Maintenance Officer for the Property Services Agency/Department of the Environment. Recently he was promoted to Regional Grounds Officer for Eastern England in succession to Ivan Hamblin

(1952) who has retired to live in Australia. John's work concerns the landscape management of Government Lands including a number of Sites of Special Scientific Interest (S.S.S.I.s) for the Nature Conservancy Council.

In November, **Tim Upson** (1989) was awarded the Institute of Horticulture Aberconway Award and Medal for his Kew Diploma management project completed earlier in the year. Our sincere congratulations.

In August **Dr. Bernard Verdcourt** an Honorary Research Associate since his retirement in 1987, attended the Flora Malesiana Symposium in Leiden along with several of his colleagues from Kew.

Mrs. E. M. Wakefield (1946), neé Moss-Holland, now lives in an old people's home in Edinburgh. Though too frail to visit Kew, she still takes an interest in the Guild.

Richard Ward, Guild Journal Editor, spent six weeks in June/July on a round-the-world ticket visiting India, Hong Kong, Australia, New Zealand, Hawaii and America. Wherever possible he contacted Kewites and reminded them that the Guild is interested to hear their news. In Perth, W. Australia he telephoned Phil Wood (1950), who is involved in a rose growing co-operative, and Ron Mason (1964) (very homesick!) who works at Government House in charge of the gardens. In Sydney Richard telephoned Roy Rumsey (1932) the day before his 80th birthday and had a long talk about Kew days. In Melbourne Richard looked up Clive Popham (1964), his old apprenticeship colleague at Dartington Hall, and his wife neé Julie Hyde-Trutch, both ex-Kew students. They have three grown daughters and all enjoy the good life down under. From their house Richard telephoned Jean and Ron Lycette (1966) who sent regards to old friends. He also telephoned N. Sinnott (1970) and R. Tomlin, and several 'lapsed' Guild members, who have now received enrolment forms! In Auckland Richard visited Andy Geddes, also a lapsed member and a successful Landscape Architect, and in Hawaii he took a bus from Honolulu to Waimea Falls Park, Haleiwa to scrounge a lunch off Keith Woolliams (1963) and have a guided tour of the Botanical Gardens!

In early July **Dr. Hazel Wilkinson** (Jodrell Laboratory) attended a three day meeting in Oxford on the Interaction between Ants and Plants.

Elen Williams resigned from her post in the Library on 3rd November to take up a new job as Assistant Librarian at St. Pauls Girls School, Hammersmith with responsibility for computerising the library catalogue and building up the software collection. We extend our best wishes to her and also congratulate her on being elected to the Register of Associates of the Library Association.

We welcome **Gillian Wilson** who started work in May as an A.S.O. in the Palynology Unit of the Herbarium.

Karen Wilson, before relinquishing her post as Australian Botanical Liaison Officer at Kew, joined several other members of the Kew staff at the Flora Malesiana Symposium in Leiden in August. In September she was replaced as A.B.L.O. by Terry MacFarlane (q.v.).

In August Richard Ward (Guild Journal Editor) contacted **Phil Wood** (1950) of Perth, Australia. Phil is working in a co-op type organisation and is particularly interested in rose growing. He hopes to organise a get-together of Kewites in Western Australia.

Congratulations to **Elizabeth Woodgyer** (General Service Unit of the Herbarium) on obtaining an A Grade A Level in Botany from Southwark College in 1989.

John Woodhams, Assistant Curator, Tropical Section, was a member of the team which went to Tucson, Arizona in September to advise the Space Biosphere Venture on the techniques necessary for the functioning of analog ecosystems.

Ann Woodward joined the Personnel Section in March after having run the Interlibrary Loans for three years as a member of the Library staff.

In August **Sue Zmarzty** left for six weeks fieldwork in Nepal joining Chris Grey-Wilson (q.v.) and three staff from the Edinburgh Botanic Garden.

Kaspar Zwicky-Waber (1931) wrote from Switzerland in January 1989 to say he intended to visit Kew in September when he came to Eastbourne on an English course. He keeps well and still tends his steep garden easily. There's nothing like horticulture for keeping the old folks fit and we send him our greetings!



Jonathan Allin, Second Year student, who was awarded the Richard Martyr award of the International Plant Propagators' Society in 1989 which involved an expenses-paid trip to California.

(Photo: Courtesy of Horticulture Week)

BEQUESTS AND LEGACIES

by Peter Maunder

I think all of us appreciate the wisdom of making a will, and it is inevitably a chore deferred to a more propitious and distant time. There is no more favourable time than the present, and to those like myself who have developed procrastination to a fine art, this is not good news!

It is imperative that professional legal advice is obtained, that the will is made out on the approved form and in the approved manner, and deposited in a secure place. A will should be updated and the executors should be aware of its place of deposit. The security of a bank is preferable to the back of the clock on the mantle-shelf.

Should you wish to make a legacy to the Kew Guild the following wording should be appropriate, but please remember to have your will professionally checked in addition to the following guidelines:

"I bequeath to the Kew Guild the sum of £"

or

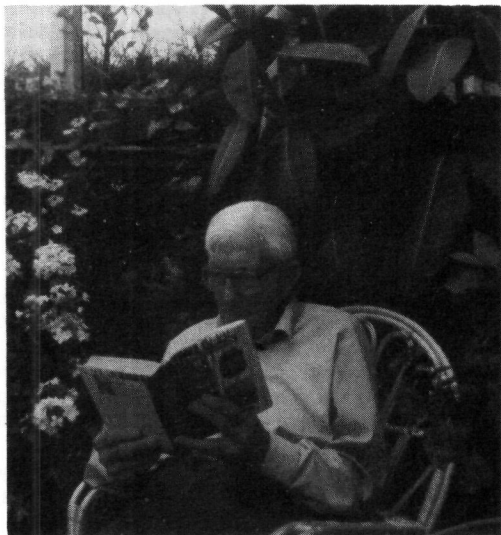
I devise and bequeath the residue of my estate to the Kew Guild."

May we all continue to enjoy life to the full for a considerable time to come, remembering that the Crown may take all we leave behind!

(This information is provided for Kewites since two recent bequests by members were contested by their families and the Guild lost out to quite a large extent — Ed.)

OBITUARIES

Collated by Graham Burgess



Clem Poulter in the Conservatory at 56 Laight Road in July 1988, surrounded by the plants he had grown.



Mark Stanley. Kew 1931-1934. This photo, dated 1955, was on his appointment as Head Park Keeper, Fitz Park, Keswick.

ALAN W. ANDERSON

We regretfully announce the passing away of one of the Guild's most committed members. As a young man in 1923 he left Breda Home Gardens, Aberdeen and found himself in digs in Gloucester Road, Kew. What fellowship even then when the early breakfast table was shared with Harold Kemp, Frank Knight and W. Howell.

On November 24th 1924 he gave a lecture to The Mutual on "Winter Flowering Plants for the Conservatory". In the 1925-26 series of lectures he gained 100% in the newly-developing Science of Genetics.

He attended all of the Dinners whilst at Kew. In 1926, the year the 1d charge was applied, he left to work in the Botanic Gardens in Dunedin, N.Z. It is interesting to note that in the year prior to the introduction of the 1d charge the annual attendance at Kew was 1,162,547. The response was a drop of 509,293.

He rapidly gained promotion after the untimely death of D. Tannock who, at the age of 25, died of blood poisoning.

Alan continued to study and gained an N.D.H. (N.Z.). He moved to take up the post of Supt. of Parks and Reserves in Timaru, New Zealand. The Kew Fellowship was much sustained through his contribution to the regular meeting of colleagues. In 1926, at the time the Association of N.Z. Kewites met in the Hotel Occidental, Christchurch, there were 18 Kewites in the Dominion.

Even after his retirement Alan was actively subscribing to the finer spirit of Kew. He maintained a lively correspondence with his old Kew flatmate W. Howells and when the latter retired and was able to visit New Zealand, Alan welcomed Howells to his mountain home near Lake Tekapo in the desolate Mackenzie Country.

In 1959 Alan retired but never lost an interest in the fine collections of native plants, many established in special scree, crevice and tussock environments. After a long and fruitful life in the service of our craft, he will be sadly missed by all.

FRED BURNELL

It is with sadness that we record the death of Fred Burnell on Saturday 14th January 1989. Fred joined the staff at Kew on 9th August 1946 following a short spell at Stoneley in Warwickshire after his demobilisation from the Army. He joined the Decorative Department where his first duties were to produce chrysanthemums for the autumn and winter display in Glasshouse 4 (the Conservatory). His skill as a grower was rewarded and he took over the propagation work for that department raising plants from seed, cuttings etc. for the extensive bedding displays and to provide flowering and foliage plants for the Conservatory. Production was centered for many years in the Melon Yard in two wood-framed houses, 21 and 22, which were situated on part of the site now occupied by the Jodrell glasshouses. In the late '60s propagation for the Decorative Department moved to the Lower Nursery and occupied the existing house 31 and a smaller, also wood-framed house, now removed, plus, in the early '70s, one zone of house 38 — the glasshouse now used as the main stock area for the Tropical Fern Unit.

Fred loved his work with plants and it was always a pleasure to 'talk plants' and to admire the beautifully trained 'Gloire de Lorraine' begonias he produced in the Melon Yard houses. He knew intuitively the conditions that were most conducive to good plant growth and his glasshouse always felt 'right' with a good balance of temperature and atmospheric moisture.

He retired from Kew on 13th October 1972, a date slightly later than should have been on account of a fall he suffered in house 38 in which he damaged his jaw. Fred's knowledge and helpful advice were always willingly shared and it was a pleasure to see him on his many visits back to the Gardens.

John Hale represented Kew at his funeral which was attended also by a number of his former colleagues.
(From Kew News No. 2, 1989 — John Woodhams)

C. G. W. POULTER

Clem Poulter died suddenly on 12th April 1989. A vigorous 87-year old, he had called to see me the day before, reminiscing of his days at Kew and talking of the memoirs he was writing.

He was born in 1903 at Writtle in Essex. His gardening career started at the age of 14 and he had had ten years experience as a garden boy and journeyman before he became a student gardener at Kew in 1927. His two years at Kew were much enjoyed and it always brought pleasure as he looked back on his days in the Palm House and among the orchids.

He followed this with ten years as Head Gardener with Sir Gomer Berry at Farnham Chase, Buckinghamshire. From 1939 until 1946 he was Head Gardener at Bristol Zoo where, despite wartime conditions, he always maintained good displays and designed and planted the well-known herbaceous border. There was little spare time in this period for he was also heavily involved with the Police War Reserve. For the next four years he was Estate Manager with London Films, Shepperton.

In 1950 he moved to Glasgow to become Deputy Director of Parks. This was a period of exciting and active development lasting until his retirement in 1966. It was during this time that I came to know Clem and enjoyed his boundless enthusiasm as a plantsman.

His horticultural interests continued after retirement. He was President/Chairman of the West of Scotland Horticultural Society, a member of the Garden History Society, and he acted as a consultant to a variety of organisations. His wife, Gladys, had died in 1978 and he had been living for some years with his daughter Ann, where his horticultural skills brought joy to the family.
(Obituary supplied by Eric Curtis)

JACK SKELTON

I am sure that many people at Kew and Wakehurst shared a deep sadness at the death of Jack Skelton on Sunday 19th February. Jack was knocked down and killed while crossing the busy A24 near to his home in South Holmwood. He had been for a walk.

After retiring as a bus driver, Jack was a messenger at Kew for just over 12 years. During his time here he brightened many a dull day — always ready with a smile, a joke, a little chat, sympathy or advice.

A very active man, he rightly claimed the title of "house-person", coping magnificently with all the chores after his wife died, as well as tending his garden, his allotment, and doing all sorts of odd jobs which even included baby-sitting and dog-walking for friends. He was a great family man too, justly proud of his sons and grandchildren.

After his retirement, at the age of 77, he still took a keen interest in Kew and Kew people. He was a member of the Kew Guild, and could be relied on to liven up any party where he much enjoyed the dancing. It is a pity that he will miss his 90th birthday party in April, and cards from his many friends both in this country and all over the world.

Many of us have lost a much loved friend, but he was active right up to the end, which is what he would have wanted. He has been buried at St. Mary's, South Holmwood, in the graveyard where he pruned the roses and kept the weeds at bay.

(Taken from Kew News No. 2 1989 — Christine Heywood)

MARK STANLEY

We sadly report the death of Mark Stanley, one of the longest serving members of the Guild. Mark was born at Wanthwaite Mill, St. Johns in the Vale in 1908.

After a comprehensive practical training in Cumbria, finally qualifying as a journeyman gardener, he applied for a post at Wisley Gardens where he worked in the Floral and Propagation Department. He then moved to Manchester Parks Department under the old Kewite Pettigrew. Subsequent encouragement lead to him entering Kew where he excelled academically.

He gained 100% in Plant Pathology and high marks in Arboriculture. In the R.H.S. Senior General Examination he was 25th best out of the 300 who passed.

At his Mutual he spoke on The Cultivation of Stove Plants. For part of 1933 he was Secretary of The British Botany Club. His collection of dried plants attracted praise from the examiners.

As a culmination to his Kew studies he gained The Matilda Smith Prize.

His love of the outdoors extended to cross country running and in this cultivation of both the mind and the body he gained a certificate from The Pelman Institute for the Scientific Development of Mind and Body. This was in December 1934.

When he left Kew he worked for Major Lawrence Johnstone both in La Mortola and then at Hidcote. He returned to Cumbria and Muncaster Castle in 1938 and in 1939 married Louise.

The war intervened and Mark served in The Royal Artillery, and when normality returned it was a different world. The heyday of the great gardens was gone. After a number of posts he returned to Keswick where he became Keeper of Parks. He finally moved to Nether Place on the Windermere road and thence into an active retirement, judging shows and bowling to a very high standard.

Mark was ill for sometime before his death and both he and his wife benefitted from supportive letters from fellow Kewites, particularly his Kew friend Hubert Taylor.

An enormous number of people attended the funeral of this good humoured and loved Kewite who so filled his life with good work.

To his wife, family and friends we offer our deepest condolences.

ALAN S. WILSON

We sadly report the death in 1989 of Alan S. Wilson after 13 years of retirement.

Alan left Hyde Park and entered Kew as a Student Gardener on 12th August in 1928. After successfully completing his studies he took a post at Kew as a sub-foreman in the Decorative Department replacing A. Hoskins, who emigrated to Italy.

In 1933 he was promoted to Assistant Curator in the Decorative Department, where he stayed until 1936. In that year he left for a new post at Government House Garden in Bengal where he remained for the next 37 years. On his retirement he moved to West River in Western Australia.

Alan was a long serving member of the Guild and his lifelong contribution to the profession has contributed to the esteem of Kew. To his family and friends we offer our condolences.

KEW GUILD INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st DECEMBER 1989

INCOME

	31.12.89		31.12.88	
	£	£	£	£
Annual Subscriptions and Arrears	3,460.69		2,432.30	
Donations — General	75.45		50.00	
Donations — Award Scheme	838.50		724.25	
Tom Arnold Bequest	2,867.18		—	
George Catt Legacy	7,673.01		—	
		14,914.83		3,206.55
Dividends from Charities Investment Fund				
— General Account	996.77		883.85	
— Award Scheme	373.18		330.88	
		1,369.95		1,214.73
Bank Interest				
— General Deposit Account	313.42		24.58	
— Award Scheme Deposit Account	255.72		104.47	
— Charities Deposit Fund	1,615.84		967.54	
		2,184.98		1,096.59
Wakehurst Booklet Receipts	—		542.30	
Less: value of Stock Sold	—		(653.38)	
		—		(111.08)
Sale of Emblems	23.00		57.00	
Less: value of Stock Sold	(20.13)		(45.57)	
		2.87		11.43
Annual Dinner Receipts	1,930.65		2,576.75	
Less: cost	(1,774.91)		(2,432.01)	
		155.764		144.74
Sales of Past President's Jewel	—		100.00	
Less cost	—		(100.00)	
		—		—
Award Scheme Soiree/Raffle	188.55		144.81	
Sale of Journals	93.00		123.92	
A.G.M. Tea	33.01		21.21	
Journal Adverts	595.00		260.00	
		909.56		549.94
		<u>19,537.93</u>		<u>6,112.90</u>
EXPENDITURE				
Kew Guild Journal — Printing	3,692.86		4,045.99	
Prizes awarded by the Guild	258.00		188.00	
Honorary Officer's expenses	65.00		120.86	
Printing, Postage, Stationery	291.72		461.99	
Award Scheme Awards	800.00		1,240.00	
Insurance	13.75		13.75	
Bank Charges and Commission	241.41		199.47	
Donation to Kew Mutual Society	—		50.00	
		(5,362.74)		(6,320.06)
EXCESS OF INCOME/(EXPENDITURE)		<u>14,175.19</u>		<u>(207.16)</u>

KEW GUILD BALANCE SHEET AS AT 31st DECEMBER 1989

	31.12.89		31.12.88	
	£	£	£	£
INVESTED ASSETS				
Charities Official Investment Fund				
— General Fund	4,000.00		4,000.00	
— Award Scheme Fund	2,000.00		2,000.00	
Charities Deposit Fund	<u>13,370.00</u>		<u>10,500.00</u>	
		19,370.00		16,500.00
 CURRENT ASSETS				
Stock — Emblems	467.87		488.00	
— Past Presidents Jewel	<u>400.00</u>		<u>400.00</u>	
	867.87		888.00	
Bank — General Deposit Account	8,262.48		126.05	
— Award Scheme Deposit Account	5,518.57		3,047.90	
— Current Account	<u>1,511.43</u>		<u>793.21</u>	
	16,160.35		4,855.16	
 LESS CURRENT LIABILITIES				
Life Subscriptions	£			
73 @ £3.15 Half rate	— 114.97			
4 @ £5.25	— 21.00			
	<u>135.97</u>	<u>(135.97)</u>	<u>(135.97)</u>	
		16,024.38		4,719.19
NET ASSETS		<u>35,394.38</u>		<u>21,219.19</u>
 FINANCED BY				
Capital Fund		21,219.19		21,426.35
Add Excess Income Over Expenditure		14,175.19		—
Less Excess of Expenditure Over Income		—		(207.16)
		<u>35,394.38</u>		<u>21,219.19</u>

Rebecca M. Bower
Hon. Treasurer

Audited and found correct Leo Pemberton
John Woodhams
25th January 1990