

# Annual Report

# 2014



*'Connecting people and plants through  
inspiration and education'*



**Key to front cover images:** (Clockwise) Kibble Palace roof, *Begonia listada*, *Platycodon grandiflorum*, *Acer griseum*, Glasgow City Council logo, *Protea cyanroides* and the Filmy Fern House (which is open to the public by arrangement)

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# Introduction

Glasgow Botanic Gardens has continued to thrive under Glasgow City Council. Recent highlights have included the multimillion pound restoration of the Kibble Palace (2003-06), and also the completion of the restoration of the Main Range (2004), the restoration of the Long Pit (2011) and Pit 1 (2013), and the opening of the 'Tea Room at the Botanics' in 2012.

The Kelvin Walkway, from Garrioch Drive to Belmont Street, is also contained within the Gardens' footprint. This provides an opportunity to give more attention to the day-to-day maintenance of these areas and provide visitors with extended walking routes and enhanced interpretation and labelling.

In 2015 Land and Environmental Services will significantly improve plant labelling in all areas of the grounds in the main Gardens area. Improvements will also progress in underutilised or overgrown areas including the *Rosaceae* bed and the monocot border.

Throughout the history of the Gardens – which dates back to 1817 – the emphasis has been on the plant collections and their use in education and, to a lesser extent, research. In the last two years a considerable increase in the focus on record-keeping and curation has been successfully led by dedicated Botanic Gardens' staff. Although there is still some way to go, a complete audit of the collections will be completed in the near future, thus enabling the Gardens to move forwards with confidence in the plant records and their enhanced value as a scientific resource.

Glasgow Botanic Gardens has a long, proud history and an international reputation. Nowadays it operates within the context of an international botanic garden community, including through membership of Botanic Garden Conservation International, Botanic Garden Education Network and PlantNetwork within the UK and Ireland. The Gardens has recently adopted the Nagoya Protocol on Access to Genetic Resources and Fair and Equitable Sharing of Benefits Arising from their Utilization.

This annual report provides an overview of the current situation within the Gardens and I am confident that the reader will not fail to be impressed by the range of activities that are going on. Despite the recent economic climate the Botanic Gardens continues to progress and offers a high quality experience to all visitors.

A small team of dedicated staff is involved in running the Gardens and caring for the plant collections and, of course, our visitors. I am most grateful to those who through their efforts continue year in, year out to ensure that the high standards are maintained. I should also highlight my gratitude to our team of volunteers, some of whom have been with us since the scheme began in 2006. Finally I would thank the Friends of the Botanic Gardens and in particular the Trustees for their considerable enthusiasm and support as we work together to achieve our mission of ‘connecting people and plants through inspiration and education’.

There are lots of challenges ahead but also great opportunities, and I believe that the Gardens will continue to go from strength to strength in the coming year.

Councillor Alistair Watson  
Executive Member for Sustainability and Transport

February 2015

# Plant Collections

The collections at Glasgow Botanic Gardens continue to develop. In 2014, a total of 844 taxa were introduced, strengthening our existing specialisms and expanding the range of plants that we grow. As can be observed in *Table 1*, the gross number of specimens introduced to the Gardens is lower than in the previous three years. This reflects a concerted effort over a period of time to reduce the total number of plants in the collections to a target of 10,000 taxa, which is deemed manageable at current staffing levels. Although our target is to reduce the gross number of plants within the collection, we aim to enhance diversity and quality by increasing the number of wild collected and taxonomically verified specimens. In 2014, the curatorial team accessioned 13.7% more wild collected plant material than in the previous year and 17.1% more than in 2010.

*Table 1. A summary of plant material provenance 2010-2014*

Year	Provenance of Material			Total
	Wild Origin	Indirect Wild Origin	Garden Origin	
2014	154	312	378	844
	18.2%	36.6%	44.8%	
2013	58	436	778	1272
	4.5%	34.0%	60.7%	
2012	44	221	956	1221
	3.6%	18.1%	78.3%	
2011	35	64	853	952
	3.7%	6.7%	89.6%	
2010	6	93	423	522
	1.1%	17.8%	81.0%	

Adoption and use of the BG-BASE collections management software has increased in 2014 and we are beginning to develop a highly informative dataset for the collections, as illustrated by the statistics garnered for and employed throughout this report. All plant material introduced to the Gardens is documented and assigned an accession number using the system. Via a series of forms, horticultural staff communicate information such as plant health, changes in locations and plant counts and this data is recorded by the curatorial team. This year, we have also seen the advent of a data capture programme for the *Begonia* collection funded by M.L. MacIntyre Trust. The project, conducted by intern Andrew Sinclair, facilitated a greater level of documentation including nomenclature, taxonomic validation, phenology and photographic rec-

ords. It is hoped that this detailed level of documentation can be employed in 2015 for other elements of the collection.

In 2014, we have progressed towards achieving our goal of having the entire collection documented. We estimate - with a high degree of accuracy - that there are a total of 10,438 named plants within the Gardens. It is important to appreciate that the total number of plants in the Garden will be considerably higher and cannot be estimated effectively at this time. To verify the residual unnamed specimens will require considerable taxonomic assessment and is a long-term goal of the curatorial team. During the course of 2014, stocktaking was carried out in both the Main Range and Kibble Palace glasshouses and estimates as to the number of named taxa in each are included in *Table 3*. The Plant Heritage ® National Collection of *Begonia* was subject to a thorough review by the M.L. MacIntyre intern, and both the Plant Heritage ® National Collections of *Dendrobium* and Dicksoniaceae have been assessed by the curatorial team; the figures are included in table 2.

*Table 2. The estimated number of named taxa divided between areas and themes of Glasgow Botanic Gardens*

Kibble Palace	571
Main Range	3,567
Plant Heritage® National <i>Begonia</i> Collection	526
Plant Heritage® National <i>Dendrobium</i> Collection	386
Plant Heritage® National Dicksoniaceae Collection	50
<b>Total</b>	<b>10,483</b>





(Top) A botanical label featuring a QR code which enables access to further information online and a representation of the QR icon which you can use to access the web resources (Bottom) Image of *Trichomanes speciosum* which features in the Filmy Fern House



# Collaboration

The network of botanic gardens worldwide is a valuable resource, with the exchange of expertise, data and plant material commonplace. We at the Gardens are grateful to a number of botanic gardens, research institutions and universities which have helped us to expand our collections with plant materials of scientific merit. It is therefore important that we, in return, also donate plant materials to worthy collections and projects.

Affiliate parks and gardens within Glasgow City Council have benefited from our diverse collections during 2013 and 2014. In November 2013, Gardens staff planted International Conifer Conservation Project specimens in Maryhill Park to enhance the landscape and during 2014, the People's Palace & Winter Gardens have received both the expertise of Gardens' staff and plant materials to aid the redevelopment of displays.

Our research links have seen plants grown at the Gardens utilised in world leading research in plant taxonomy and biodiversity. Research conducted at the Kunming Institute of Botany in Yunnan, China, the Royal Botanic Garden Edinburgh, and Bristol University have all incorporated our collections into their studies.

Donations to educational facilities have also seen the collections used for learning, outwith the gardens, by groups such as the Glasgow Science Centre and the Astell Foundation.

Plant exchanges have been part of the curatorial practices of the Gardens since 1817, and are still important today. Botanical collections such as those at the Royal Botanic Gardens Kew, the Royal Botanic Garden Edinburgh, and the Eden Project have all benefited from plant material originating from the Gardens.

Table 3. A list of institutions and gardens which Glasgow Botanic Gardens has donated plant materials to during 2013-2014

Sent Date	Location	Material	Purpose
2014*	People's Palace & Winter Garden	Mixed	Horticulture
16-Oct-14	University of Ferrara Botanic Garden	Vegetative	Trichomanes spp. Research
11-Oct-14	Kunming Institute of Botany & The Royal Botanic Garden Edinburgh	Vegetative	Begonia spp. Research
21-Aug-14	Logan Botanic Gardens	Plants	Horticulture
13-Aug-14	Astell Foundation: RESTART	Vegetative	Education
07-Mar-14	Kunming Institute of Botany & The Royal Botanic Garden Edinburgh	Vegetative	Begonia spp. Research
16-Jan-14	Prague Botanic Garden	Vegetative	Begonia spp. Research
20-Nov-13	University of Bristol	Vegetative	Iridescence Research
13-Nov-13	Maryhill Park	Plants	International Conifer Conservation Project
25-Oct-13	Logan Botanic Gardens	Plants	Horticulture
09-Sep-13	The Royal Botanic Gardens Kew	Plants	Horticulture
20-Jun-13	The Royal Botanic Garden Edinburgh	Plants	Horticulture
07-Jun-13	Threave Gardens, NTS	Plants	Horticulture
24-Apr-13	Eden Project	Plants	Horticulture
23-Mar-13	Duchy College	Plants	Micropropagation Research
07-Mar-13	Glasgow Science Centre	Vegetative	Education
*Invoice for the People's Palace & Winter Garden has remained active as redevelopment and planting continues			

## Partnership with the Royal Botanic Garden Edinburgh

The National Collection of *Begonia* held in Glasgow Botanic Gardens is of **international** importance in terms of its value to science and conservation. The genus *Begonia* is one of the largest flowering plant groups in the world, and incredibly diverse in form, making it an ideal model for investigating the evolution of tropical biodiversity. Research on *Begonia* forms part of the Biodiversity Strategy of the Royal Botanic Garden Edinburgh, and this research makes heavy use of the collection held in Glasgow. Both gardens hold large *Begonia* collections, but these collections lean heavily towards complementarity rather than overlap. A key strength of the Glasgow collection is the expert and dedicated horticultural care it receives, which means it holds well-maintained material of species not present in other collections in Scotland or the UK. Furthermore, access to the collection has been key to the success of many research projects carried out at the Royal Botanic Garden Edinburgh. Staff and students from Edinburgh visit the collection in Glasgow several times per year to take samples and exchange cuttings. Material from the collection has been used in undergraduate, postgraduate, post-doctoral and core staff projects. The material can be used for a range of purposes, including classical taxonomy, molecular phylogenetics, developmental genetics and physiology.

Appendix 1 includes a list of publications which have utilised the plant collections at Glasgow Botanic Gardens for publication in scientific journals.

*Dr Mark Hughes,  
Tropical Botanist*



Royal  
Botanic Garden  
Edinburgh

## Partnership with the University of Glasgow

Glasgow Botanic Gardens is a useful and convenient resource for the teaching of the Life Sciences at the University of Glasgow. For formal teaching we take around 100 students on an annual field trip to the Botanic Gardens as part of the Level 1 Environmental Biology course. Staff from the Botanic Gardens helped in the development and design of the field trip and are responsible for taking the students around the Gardens, answering questions and generally passing on their expertise. We hope to develop this relationship in the near future and are negotiating for staff from the Botanic Gardens to deliver lectures in the Environmental Biology course from the 2015/2016 academic year. Student feedback on the visits to the Botanic Gardens is always extremely positive.

In a less formal way we also make use of the Botanic Gardens by recommending that our students visit the Botanic Gardens to give themselves some background knowledge of the ecosystems featured in the various greenhouses and of some of the more important plants within those ecosystems.

*Dr Stewart White*  
*University Teacher*







(Top) *Begonia* research group from the Royal Botanic Garden Edinburgh visiting the *Begonia* collection at Glasgow Botanic Gardens (Bottom) Development of the People's Palace and Winter Gardens aided by Glasgow Botanic Gardens staff and plant material



# Garden Projects

## **Certificate in Practical Horticulture**

2014 was the second year that the Certificate of Practical Horticulture (CPH) was delivered at Glasgow Botanic Gardens. The course, developed by the Royal Botanic Garden Edinburgh, is offered here by the Friends of Glasgow Botanic Gardens. The course comprises eight intensive teaching days (9am–5pm), a revision day and an assessment day. The course is an example of blended teaching, with online content complementing the practical activities and classroom lectures. Qualified Friends of Glasgow Botanic Gardens aid in the delivery of the course and help in the preparation of teaching resources by Gardens' staff, with the curatorial team helping during the assessment. Full use is made of the differing plant collections to provide a stimulating environment in which to study horticulture. Forty students have now completed the CPH; the majority are local to Glasgow, with a small proportion travelling from out-with the region. Individuals from community groups such as Lambhill Stables and Urban Roots have attended, as have allotment holders, education professionals (including the OPAL community scientist) and, of course, keen amateur gardeners. On completing the CPH, a number of students have expressed an interest in volunteering at the Gardens. The next course will run in March 2015.

### ***Begonia* Data Capture - M.L. MacIntyre Trust Funded Project**

In 2014, the M.L. Macintyre Begonia Trust funded a temporary research internship at Glasgow Botanic Gardens. The Trust is primarily concerned with funding research into the Begoniaceae family and providing support for the National Begonia Collection held at the Gardens. The collection is one of the most diverse in the UK, with a large number of ornamental cultivars and an excellent representation of species from regions where Begonias occur naturally.

The 2014 internship at Glasgow was held by Andrew Sinclair, a recent graduate of Royal Botanic Garden Edinburgh (RBGE). Prior to the internship, Andrew was a volunteer at Glasgow Botanic Gardens, as well as working part-time for Glasgow Museums where he assists the Curator of Botany with Glasgow's historic plant collections. The aim of the three-month internship was to carry out a complete inventory of the plants within the collection; to update and expand collection information relating to the species; and to record/amend the information on the collection management database, BG-BASE. The study found that, when compared with historical inventories, the Collection had broadly maintained its diversity, despite a slight decline in the number of named *Begonia* taxa. A thorough assessment of *Begonia* taxa allowed the curatorial team to target the sourcing of new plant material and review horticultural issues related to ongoing management of the collection.

The interest generated by the *Begonia* collection, in terms of its diversity, horticultural care and collection information, contributes to the Gardens' standing within the framework of UK organisations such as RBGE and the Royal Botanic Garden, Kew as well as in the international botanic garden and plant science community. This is vital as it allows Glasgow Botanic Gardens to make reciprocal requests for plant material and increased partnership working.

## **Main Gate**

The main entrance to the Gardens, adjacent to Great Western and Byres Road, was redeveloped to improve light levels, while incorporating perennials and shrubs which would provide winter and summer colour. The redevelopment of the entrance is the first phase of a plan to improve the visitor experience, improving the displays at key focal points throughout the Gardens. After the removal of a number of tree and shrubs, the area was redesigned to include a selection of herbaceous perennials boasting rich and vivid colours, extending from spring to summer. In the midst of winter, the selection of Dogwoods (*Cornus* cvs.) with vibrant stems of orange, red and yellow will provide seasonal interest.

## **Tree & Commonwealth Trail**

During 2014, two trails were implemented to guide visitors through the collections, one focused on trees and the other on plants of the Commonwealth. The Tree Trail was developed in collaboration with the National Tree Collections of Scotland, Heritage Lottery Fund and the Central Scotland Green Network. Twenty trees feature in the pamphlet which guides the visitor to each specimen. Interpretation panels and QR codes - featured on the botanical labels - have been employed to convey further information to the visitors in an accessible format. The Commonwealth Trail, developed to coincide with the Glasgow 2014 Commonwealth Games, represents 48 plants from 24 Commonwealth Nations and demonstrates the breadth of plants cultivated in the Gardens. The route of the trail takes in the Kibble Palace, the Main Range glasshouses and the grounds.

## **Wildflower Garden**

The Wildflower Area, next to the Chronological Border, was subject to a number of developments in 2014. To create a more favourable environment for wildflowers, a new grass cutting regime was introduced and Yellow Rattle (*Rhinanthus minor*) – a hemi-parasitic plant which suppresses the dominance of the grasses – was introduced. The biodiversity of the area was increased with the establishment of bulbs, wildflowers, and, in collaboration with the Royal Society for the Protection of Birds (RSPB) a ‘Bug Hotel’ – a wall featuring crevices capable of hosting a range of insects. During the year, the area was used for multiple workshops and education activities, including the RSPB Glasgow Wildlife Garden Festival in September.



(Top) Certificate in Practical Horticulture Co-ordinator, Paul Matthews, demonstrating tree planting techniques (Bottom) M.L. MacIntyre Trust Intern, Andrew Sinclair, assessing *Begonia* specimens



# Education

The Botanic Gardens in Glasgow have the great advantage of being situated close to the heart of the city. Close also to the Clyde Tunnel, the bridge across the river, the M8 and the new M77. This accessibility makes the Gardens extremely attractive to all types of visitor. Visitors from outside Scotland, particularly those from England, are always shocked and pleasantly surprised to discover that entrance to the Gardens is free. Moreover, the City of Glasgow provides free transport for every school in the city to attend educational establishments and events.

As a result of 'Class Connections', the largest group of regular visitors coming to the Botanic Gardens for educational purposes are schools. There are a substantial number of 'regulars' – teachers who bring their new class every year.

Most commonly asked for (by the teachers) is the 'Rainforest Tour'. Most commonly asked for by the children is the carnivorous/insectivorous plant collection. No other plant in the gardens has the lure of the 'Venus Fly-Trap!'

Seasonally, the 'Scottish Tree Trail' is popular. With younger primary children physicality is important. On stopping at each tree they are asked to use all their senses (except taste!) to examine the tree and then describe it using only individual words, not sentences. This enables them to recognise the trees when seeing them again. Thus, they leave the Gardens able to identify a number of their native trees and they have had to think carefully about the application of descriptive words.

The older primary children respond well when they discover that plants are not only found in science lessons. On learning that the wood of the Ash tree was used by Vikings to make their spears and shields, and that hazel nuts were not only eaten but ground up so the resulting oil could be rubbed into hair to deter parasites, the children usually respond with the desire to act out this new knowledge. They have discovered that plants played an enormous part in history.



The Gardens receive fewer numbers of secondary schools, partly due to the more intensive nature of the curriculum. Also, workshops would require greater facilities and materials provision than we can currently provide.

Over the past few years the Gardens have been having increasing numbers of visits from special needs schools which cater for children with minor learning difficulties, deaf children who have recently been fitted with implants and are getting used to hearing, blind children, children without learning difficulties but who are in wheelchairs and children who are severely psychologically and physically impaired. The Gardens are uniquely placed to provide a new, stimulating and enjoyable experience. For those children with severe impairments, the carers/teachers often ask us to put the “rain” on in the palm house with the recording of rainforest animal sounds. We also give them different flowers and leaves with various textures and scents to smell and feel against their skin.

The Gardens are also receiving more schools and colleges doing art work. Drawing and painting is usually confined to the Kibble Palace simply because there is considerably more space there to do the work without getting in the way of the visiting public. We have one local school that makes a two-day visit every year. On arrival students are divided into three groups, with the first spending the morning in the glasshouses drawing. The second group goes into the Hopkirk Building and observes various plant parts under the microscopes. They have to draw some of those parts not in an artistic way, but in a clearly defined botanical/scientific manner. Meanwhile group three are taken on a glasshouse tour to look at plant function, adaptations to specific environments, and plant/human interactions i.e. medicines, foods, shelter etc.

Groups two and three swap over mid-morning, then in the afternoon they do the art work whilst group one is divided into two and they then carry out the anthropological and scientific studies. The next day sees the arrival of the same number of students from a different class and everything is repeated.

Over the years the Botanic Gardens have accumulated a substantial collection of plant artefacts i.e. plant materials that have been and may still be utilised by mankind. These have captured the interest of all age groups. Each year the 'Environmental biology' students from Glasgow University visit with a large number of students over two days. As well as a tour they always request that a section of the artefacts be demonstrated to them. These may include: paintings done on pounded bark from Mexico and East Africa, frankincense and myrrh in their raw form, a small basket made by a 'Friend of Glasgow Botanic Gardens' from pine needles and grass, a small parrot carved from Balsa wood, the lightest in the world, and a lawn bowls ball made from Lignum Vitae, one of the heaviest.

Recently the Gardens have been receiving increasing numbers of adult overseas students who are attending several colleges within Glasgow to learn English. On arrival they are each asked which country they originated from. The ensuing tour attempts to show examples of plants from those countries. This immediately piques the interest of the students and encourages them to tell us about life in their country and how they use those plants. There are usually a large number of students from tropical Africa who at the start appear quite shy. Once we reach the palm house with its rainforest plants, bananas, palms and many of the plants we in Britain grow as houseplants, they immediately relate to them and sometimes without prompting they will tell us about "these plants from home".

An offshoot of education is health. We now receive a growing number of older people who visit the Gardens with their horticultural society, their church group, their retirement group etc., who want to be given a tour. At the same time we are receiving more dementia and Alzheimer's sufferers. Generally they are in the early stages of the illness and are able to appreciate a day out. Their nurses and carers have indicated that these visits are not only enjoyable for the visitors but are also very helpful in stimulating the mind.



(Top) Undergraduate biology students from the University of Glasgow learning about ethnobotany  
(Bottom) Children participating in practical scientific demonstrations during Fascination of Plants Day.

# Park Ranger Service

The park ranger service continued to function from the Botanic Gardens in 2014.

The rangers carried out regular patrols within the Gardens, walkway and arboretum and acted as the main interface with visitors, providing information and guidance on a daily basis. The ranger service is responsible for opening and closing the 13 gates of the Botanic Gardens and they also open and lock three vehicular gates at the Glasgow City Council cemeteries in Lambhill / Milton in the north of the City.

In 2010 the park rangers at the Botanic Gardens started a new initiative offering a health walk every Thursday. This takes the format of a one-hour guided walk from the Kibble Palace for adults over the age of 16. The main reason for health walks is to encourage people who need more exercise, often because of health-related issues, to walk more. One important benefit of the weekly walk is social interaction among the group.

The rangers at the Botanic Gardens are all trained health walk leaders. They can offer a number of risk-assessed routes, most of which utilise the Kelvin Walkway south-east to Kelvingrove Park or west towards Dawsholm Park. A new route incorporating Ruchill Park, with the option of taking in the views from the high vantage point of the flagpole, was introduced in 2014. The average number of walkers taking part in 2014 was 20 per week.

In spring 2015 an additional walk will be introduced. This will be of a slightly longer duration allowing the rangers to lead walkers from the Botanic Gardens west along the Kelvin Walkway to Dawsholm Park.

The service is also capable of providing history tours and general tours within the Botanic Gardens, but most of the staff involved do not have plant knowledge and are therefore not expected to provide botanical tours. An increase in the number and theme of tours being provided is planned for 2015/16. To facilitate

this, in-house training in the identification of common tree species will be provided during the summer of 2015 with follow-up training in bare twig identification in the winter months.

The rangers carry out a number of additional duties, including the uplifting of litter, and continue to provide an essential service within the Botanic Gardens. They also patrol, when time permits, across the north of the City, especially to the larger parks such as Kelvingrove, Victoria, Ruchill, Maryhill and Dawsholm.





(Top) Park ranger guiding a member of the public (Bottom) Park ranger leading a weekly health walk starting and finishing at Glasgow Botanic Gardens

# Archives

Jane Goldie started working on the fairly large but disorganised collection of archives in 2006 when she joined the Gardens' team of volunteers. Since then Jane has catalogued almost 3000 items relating to the history and development of the Botanic Gardens. Some of the items catalogued are of minimal importance but contribute to the creation of an overview showing how the Gardens have developed over the last 200 years, reflecting themes and trends relating to the plant collection, buildings, staff and the very wide range of activities that have occurred through time.

From the 19<sup>th</sup> Century there is a ticket to attend the installation, in the Kibble Palace on 19 November 1873, of the Right Hon. B Disraeli as Lord Rector of the University of Glasgow.

There is a full set of time books from October 1907 that record the names and weekly pattern of hours worked by all staff at the Gardens. There is fascinating book describing the Botanic Gardens Mutual Aid Fund (founded October 1931) which preceded Statutory Sick Pay (SSP) and sickness absence pay.

There is an obituary and appreciation of Robert Bullen (1834-1892), Curator of Glasgow Botanic Gardens between 1868–92, copied from *The Gardeners' Chronicle* of 15 and 22 October 1892 respectively. There is also a brief biography of Stewart Murray, the first Superintendent and Curator of Glasgow Botanic Gardens from 1917 until 1952, and a list of his publications.

The most poignant and disturbing archive relates to an action taken in 1920 against the Corporation of the City of Glasgow in the Court of Session relating to the death of a child of seven years of age who died in 1919 after eating berries from a plant of Deadly Nightshade that was on display in the Gardens.

Another item shows plant material supplied to the University of Glasgow between 1916-1935 and there are many plant records, most of them hand-written, from the 19<sup>th</sup> Century through to the 1960s, when most

records started to be typed and were later computerised.

There are historic photographs of the buildings, staff and plants. There are detailed plans from the 1960s relating to the development of the future Kelvin Walkway. There are also plans and architect's drawings relating to the restoration of the glasshouses over the years, including the major restoration of the Palm House in 1988 and of course the Kibble Palace between 2003 and 2006.

The library also contains some fine archive books relating to the history of the Botanic Gardens, including two copies of the Gardens' guide book from 1825 and another one from around 1901. There is also a book cataloguing the plants donated by the founder, Thomas Hopkirk the Younger, from his garden at Dalbeth to the emerging Botanic Gardens in 1817 – at the original Sandyford site.

In the past, a small selection of the archives, including books, have been displayed in the Visitor's Centre. In 2015 we intend to explore how such exhibitions can continue now that the Visitor's Centre has become the Tea Room. During 2013 and 2014 a purpose built exhibition, prepared by Gardens staff, featuring herbarium specimens collected in Sri Lanka (then known as Ceylon) by 19<sup>th</sup> Century coffee planter George Wall and now held in the small herbarium was mounted in the Tea Room. This exhibition is extant and will be used again in the Tea Room or other locations.

A long-term objective of the Botanic Gardens is the provision of a purpose built visitor centre. This will incorporate adequate space for educational activities including exhibitions and the display of plant-related artefacts and other archives belonging to the Gardens.



- 95 Photocopy of chapter 13, pp100-114 of **A FULL HISTORY OF THE WONDERFUL CAREER OF MOODY AND SANKEY IN GREAT BRITAIN AND AMERICA**
- 96 Photocopy of **THE LIFE OF DWIGHT L. MOODY** by his son W.R. Moody, published by Morgan and Scott, London
- 97 Print of crowds outside the Kibble Palace to hear Moody and Sankey, taken from **THE LIFE OF DWIGHT L. MOODY**, with covering letter from STV
- 98 The Glasgow Herald of 30 January 1873: Moody and Sankey preach in the Kibble Palace and on Glasgow Green
- 99 The Glasgow Weekly Herald of 18 April 1874: Christian Convention in the Kibble Palace
- 100 Picture, possibly of Dwight Moody, from **THE BAILIE** of 05 April 1882
- 101 Article from **Evening Citizen** of 30 January 1873 entitled "Moody and Sankey in Glasgow"
- 102 Notes on the visit of Moody and Sankey from **THE JUBILEE SOUVENIR**
- 103 Article from **Evening Citizen** of 06 February 1873 entitled "More Readers' Memories of Moody in Glasgow"
- 104 Notes made by Eric Curtis on the meetings of Moody and Sankey in Glasgow
- 105 Article from **The Daily Record and Mail** of 26 January 1914 entitled "Glasgow Suffragettes Attempt to Blow Up Kibble Palace"
- 106 Certificate (for silver-gilt medal) awarded to Glasgow City Council for its display of tropical plants, Gardening Scotland 20??
- 107 **KIBBLE PALACE: A DISSERTATION** by Graham T Smith
- 108 Passages on the Kibble Palace from *Glasshouses: A History of Greenhouses, Orangeries and Conservatories* by May Woods and Annette Warren, published 1997
- 109 Copy of chapter on Glasgow from the translation of the Kohlmaier book
- 110 Diagram of Kibble Palace from *Gewachshauser*
- 111 Copy of article taken from *Gewachshauser: Anlagen in England, Belgien und Holland* by F Schulze
- 112 Copy of an article on the Kibble Palace (No indication of source or date)
- 113 Copy of an article from **THE WEST END NEWS** of 30 June 1978 entitled "This Man Kibble at the Palace". Includes a photo of Eric Curtis.
- 114 Copy of article from **THE GLASGOW HERALD** of May 15 1953 entitled "Glasgow's Garden Home for Aged Statues" by Douglas Percy Bliss
- 115 Copy of an article from **Country Life** Magazine of 14 August 1986 entitled "Mr Kibble's Crystal Palace", written by Ken Lemmon
- 116 Caricature, mounted on board, of John Kibble standing in front of his palace
- 117 Photocopy of above
- 118 Laminated copy of letter outlining the terms for the preparation of the Kibble Palace for Disraeli's inaugural; address. Original is in Glasgow University archive
- 119 Photocopy of the British Association's *Catalogue of Photographs and Photographic Apparatus*, exhibited at the meeting in Glasgow September 1855. (Inc
- 120 Magazine article from unnamed source and of unnamed date on the history of photography using Kibble's plates
- 121 Copy of article from **THE BAILIE** of 12 November 1873 entitled "Men You Know - Mr Kibble"
- 122 Article from **THE HELENSBURGH ADVERTISER** of 02 June 1989 entitled "A Real Monkey Puzzle", about the removal of a very old *Araucaria* from the grou
- 123 Cutting from **THE GLASGOW HERALD** of 08 October 1964 about the sale of Coulport House
- 124 Article from The Greenock Telegraph of ? February 1984 about John Kibble and the Kibble palace
- 125 Cutting from **THE HELENSBURGH ADVERTISER** of 30 January 1986 entitled "Pleased to Have Helped"; sent in by Alison Rutherford



(Top) Example of the database documenting the archive collection at the Gardens (Bottom) An example of an annual family ticket from 1858 which is an item included in the archive collection

# The Friends

The Friends of Glasgow Botanic Gardens have continued with a number of activities over the last year. Their programme for members includes six talks each year. The principal talk is the Kibble Lecture, which is supported by the Incorporation of Gardeners of Glasgow and involves bringing in a high-profile speaker. The lecture on 23 April 2015 will be delivered by Timothy Walker, former Director of Oxford Botanic Garden and his topic will be 'The History of the Oxford Botanic Garden'. As part of the long term relationship between the Gardens and the University of Glasgow, the University provides a venue for the Friends talks all of which, except the Kibble Lecture, are held in the Bower Building. The Kibble Lecture is usually held in the Boyd Orr Building as the numbers attending are greater.

The Friends also have at least two outings each year – often to other gardens in Scotland or the north of England but also to the Glasgow Botanic Gardens every couple of years. The outings are normally led by a member of staff from the Botanic Gardens. An annual social evening is held in the Kibble Palace in the summer; this raises awareness of the Friends and also acts as a fund raiser.

In recent years the Friends have worked with the Botanic Gardens in the introduction of the Royal Botanic Garden Edinburgh's Certificate of Practical Horticulture. This practical horticultural course for beginners has been run successfully on three occasions since 2013 and is set to continue. The course is co-ordinated by members of the Friends along with Gardens' staff and makes use of the considerable resources of the Botanic Gardens to deliver the training effectively. An objective for 2015 is to obtain Individual Learning Account (ILA) accreditation for the Gardens to enable participants to receive ILA support for their fees. The finances of the course are handled by the Treasurer of the Friends as they are the official body delivering the training.

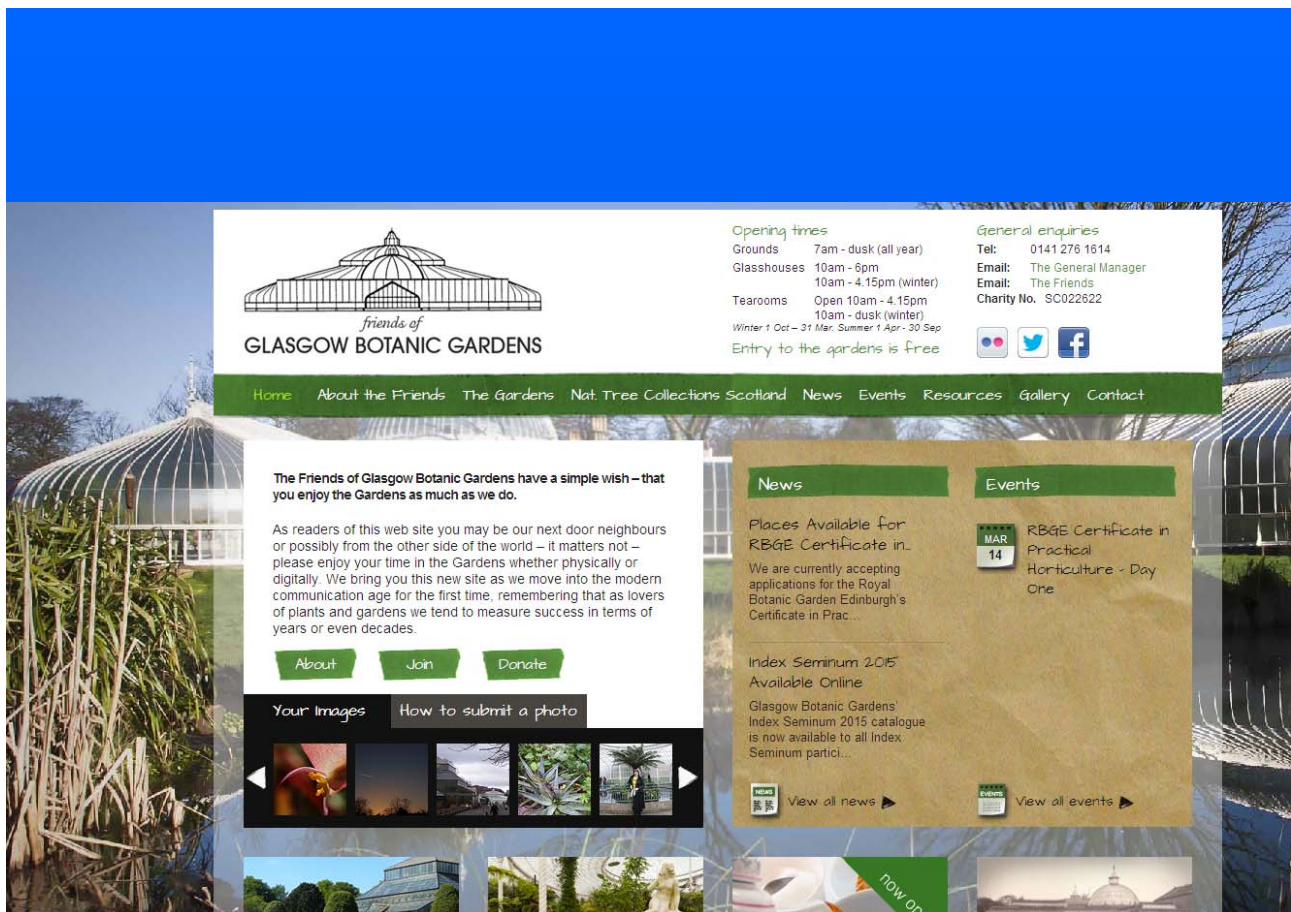


The Friends have been involved in a project related to the National Tree Collections of Scotland over the last four years. This has attracted considerable support funding and has seen the introduction of the new Tree Trail within the Gardens.

Although the Friends and the City Council were committed to working towards the delivery of a new tree hub within the Botanic Gardens, funding problems eventually led to this being shelved in early 2015.

The Friends of the Botanic Gardens receive an income from donations, members' subscriptions and legacies. The funds raised through the visitors donations' box in the Kibble Palace are handled by the Friends. This ensures that the Friends can effectively contribute directly to the work of the Gardens and in recent years they have regularly donated towards the purchase of plants and equipment. In 2013 the Friends contributed just over £17,000 (half the cost) towards the restoration of the small propagation glasshouse known as Pit 1.

The principal objective in the Constitution of the Friends is 'education for the public benefit by supporting and furthering the activities of Glasgow Botanic Gardens as a centre for education, research and public amenity'. The Friends are committed to working closely with key staff from the Botanic Gardens to ensure that these objectives are carried out. Considerable residual funds are in hand from the legacy left by the late Mrs Maureen Bell and a new, education-based project is to be developed in 2015, possibly involving the provision of an outdoor learning space within the Gardens.



(Top) The Friends of Glasgow Botanic Gardens website which advertises the work of the Gardens and upcoming events (Bottom) Committee members and staff promoting the work of the Friends of Glasgow Botanic Gardens

# Staff List

## Management

Ewen Donaldson (far left)  
Joe McCulloch (centre left)  
Will Ritchie (centre right)  
Louise Bustard (far right)  
Vacant

General Manager  
Assistant Manager  
Curator  
Education Officer  
Assistant Curator



## Manual Staff - Grounds

Graeme Higgins  
David Ferguson  
Alan McDade  
Barry McGloan  
Jonathan Rawson  
Michael Stark  
Heather Buchan

## Manual Staff - Glasshouses

Gordon Webb  
Martin O'Loughlin  
Stevie Jakusz  
Christine Nicholson  
Chantelle Bissett  
Jamie McCubbin  
Chris Smith  
David Nelson

## Park Rangers

Kenny Best  
Paul McCandlish  
Jackie McKeown  
Ben Allison  
Stevie Ward  
Graham Scott  
Andy Stewart

## Botanical Assistant (temporary)

Finulla McCloskey

## Apprentice Gardeners

Amy McLeod  
Andrew McGuire  
David Singleton  
Michael McCarron

## Volunteers

Andrew Sinclair  
Barbara Collier  
Barbara Fisher  
Irene Nicoll  
Jane Goldie  
Rachel McCormick  
Rosemary Gibbs  
Ruaridh Duffy  
Sharon Buchan  
Stephen Phillips

# Activities & Events

Table 4. List of activities and events which were conducted at Glasgow Botanic Gardens in 2014.

## January

06/01/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
09/01/2014	Cactus and Succulent Society meeting in the Hopkirk Building
11/01/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
18/01/2014	GDS Photography Workshop in the library (private let)
18/01/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
18/01/2014	RSPB information stall with activities for children - Kibble Palace
19/01/2014	RSPB information stall with activities for children - Kibble Palace
28/01/2014	Stars over the Botanics evening led by the Glasgow Astronomy Society
30/01/2014	Launch of Tiki Sculpture in Kibble Palace
31/01/2014	to 2/3/14 Exhibition of Herbarium Specimens in tea room

## February

02/02/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
06/02/2014	Cactus and Succulent Society meeting in the Hopkirk Building
08/02/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
08/02/2014	& 9/2/14 Weekend Book Fair in the Hopkirk Building (private let)
15/02/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
17/02/2014	Scottish Orchid Society meeting in the Hopkirk Building
19/02/2014	Stars over the Botanics evening led by the Glasgow Astronomy Society
25/02/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
27/02/2014	Private Hire (evening) of the Kibble Palace by the House of Fraser

## March

01/03/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
01/03/2014	Japanese Matsuri – community event in the Kibble Palace
01/03/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
02/03/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
04/03/2014	to 16/3/14 Exhibition of Paintings by Itevan Ganchen in the Tea Room
05/03/2014	Institute of Horticulture 'Young Hort of the Year' final in the Kibble Palace
06/03/2014	Cactus and Succulent Society meeting in the Hopkirk Building
07/03/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
08/03/2014	Certificate in Practical Horticulture course – ER Potting Shed and Gardens
08/03/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
08/03/2014	Plant Heritage group meeting in the library
08/03/2014	& 9/3/14 Weekend Book Fair in the Hopkirk Building (private let)
09/03/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
14/03/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
15/03/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
15/03/2014	GDS Photography Workshop in the library (private let)
16/03/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
17/03/2014	to 6/4/14 Iona Easton exhibition of paintings in tea room
17/03/2014	Scottish Orchid Society meeting in the Hopkirk Building
18/03/2014	Stars over the Botanics evening led by the Glasgow Astronomy Society

### March (Continued)

22/03/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
22/03/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
23/03/2014	Polish Community / Cultural event at the Garrioch area
23/03/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
28/03/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
29/03/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
29/03/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
30/4/14 – 4/4/14	Hydrapangea art installation in the Kibble Palace
30/03/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)

### April

02/04/2014	and 3/4/14 RSPB information stall with activities for children - Kibble Palace
03/04/2014	Cactus and Succulent Society meeting in the Hopkirk Building
4/4/14 - 1/5/14	Art for All exhibitions in the tea room
5 & 6/4/14	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
07/04/2014	Scottish Orchid Society meeting in the Hopkirk Building
11/04/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
12/04/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
12/04/2014	GDS Photography Workshop in the library (private let)
12/04/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
14/04/2014	Friends of Glasgow's Nature Reserves meeting in Hopkirk Building
16/04/2014	Propagation Workshop in Hopkirk Building
18 to 21/4/14	Weekend Book Fair in the Hopkirk Building (private let)
18/4/14 - 21/4/14	RSPB information stall with activities for children - Kibble Palace
19/04/2014	GDS Photography Workshop in the library (private let)
19/04/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
24/04/2014	Cactus and Succulent Society meeting in the Hopkirk Building
25/04/2014	John Muir Society Poetry event and book launch – Kibble Palace and Hopkirk
26/04/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
27/04/2014	Glasgow Astronomy Society 'Sun over the Botanic' event – flower garden area
27/04/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
28/04/2014	Launch of West End Festival in Kibble Palace (private let)
29/04/2014	Friends of Botanic Gardens 'Kibble Lecture' at University of Glasgow
30/04/2014	M.L. MacIntyre Begonia Trust AGM in the library

### May

01/05/2014	Cactus and Succulent Society meeting in the Hopkirk Building
01/05/2014	RSPB information stall with activities for children - Kibble Palace
1/5/14 - 1/6/14	Imelda Shaughnessy exhibition of paintings in tea room
03/05/2014	Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
03/05/2014	GDS Photography Workshop in the library (private let)
3/5/14 - 5/5/14	Weekend Book Fair in the Hopkirk Building (private let)
03/05/2014	Private hire of Kibble Palace south wing for a Christening party
08/05/2014	AGM of the Friends of the Botanic Gardens in the Kibble Palace



### May (Continued)

09/05/2014	RSPB information stall with activities for children - Kibble Palace
10/05/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
10/05/2014	3 x Wedding Photography bookings – grounds and Kibble Palace (rental applicable)
11/05/2014	Art Class in the Hopkirk Building (private let)
16/05/2014	RSPB information stall with activities for children - Kibble Palace
17 & 18/5/14	Annual Orchid Fair in the Kibble Palace
17/5/14 25/5/14	Ceramics exhibition in Kibble Palace South Wing
19/05/2014	Scottish Orchid Society meeting in the Hopkirk Building
23/05/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
24/5/14 - 26/5/14	Weekend Book Fair in the Hopkirk Building (private let)
31/05/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
31/5/14 - 6/7/14	Seed of Hope (Sustainability) exhibition in Kibble Palace

### June

*Note: Hopkirk Building and Library - block booking by the Bard in the Botanics (Shakespeare Festival) – regular events still run as normal*

01/06/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
2/6/14 - 15/6/14	Exhibition of paintings by Alistair Sheals in tea room
05/06/2014	Cactus and Succulent Society meeting in the Hopkirk Building
07/06/2014	Certificate of Practical Horticulture finals in Hopkirk and Grounds
07/06/2014	Friends of the River Kelvin gala day at halfpenny bridge house area
07/06/2014	West End Festival – Samba Band playing on the main lawn
07/06/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
7 & 8/6/14	Cactus and Succulent show and sale of plants in Kibble Palace
08/06/2014	West End Festival Parade formed up in Gardens – left for Byres Road at 3pm
08/06/2014	Evening Concert by Glasgow Chamber Choir in Kibble Palace
08/06/2014	Leonie de Vries running environmental workshops for children in Kibble Palace
10/06/2014	Pilates Class in the Kibble Palace (private let)
13/06/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
13/06/2014	RSPB information stall with activities for children - Kibble Palace
13/06/2014	Lyric Choir evening concert in Kibble Palace (rental applicable)
14 & 15/6/14	Book Fair in the Hopkirk Building (rental applicable)
14/06/2014	St Margaret's Hospice fundraising event in the Grounds
14/06/2014	Wedding Photography booking – grounds and Kibble Palace (rental applicable)
15/06/2014	Large Buddhist event linked to 'Seeds of Hope' exhibition in the Gardens
16/06/2014	to 30/6/14 Exhibition of paintings by Stephen Murray in tea room
17/06/2014	Pilates Class in the Kibble Palace (private let)
17/06/2014	Close Shave Barbers Shop Choir concert in the Kibble Palace (evening)
17/06/2014	Writing Group led by Nalini Paul in Kibble Palace south wing (private let)
18/06/2014	Evening Yoga Class in Kibble Palace south wing (private let)
20/06/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
21/06/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
22/06/2014	Voicebeat Choir Concert in the Kibble Palace (evening hire)
24/06/2014	Pilates Class in the Kibble Palace (private let)
25/06/2014	Evening Yoga Class in Kibble Palace south wing (private let)
25/6/14 - 12/7/14	Bard in the Botanics 'Comedy of Errors' in the grounds (nightly except Sunday & Monday)

### June (Continued)

26/06/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
26/06/2014	Step by Step Nursery graduation in the Kibble Palace south wing (rental)
28/07/2014	3 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
29/06/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
29/06/2014	Gamelan Orchestra – free evening concert in Kibble Palace

### July

*Note: Hopkirk Building and Library - block booking by the Bard in the Botanics (Shakespeare Festival) – regular events still run as normal*

1/7/14 - 27/7/14	Exhibition of paintings by Faifley Art Group in the tea room
3/7/14 - 12/7/14	Bard in the Botanics 'Hamlet' in the Grounds (nightly except Sundays & Mondays)
5 & 6/7/14	Display and sale of Cacti and Succulents in the Kibble Palace
05/07/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
06/07/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
11/7/14 - 14/7/14	Weekend Book Fair in the Hopkirk Building
11/07/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
15/07/2014	Bard in the Botanics – Dress Rehearsal for Henry V (evening)
16/07/2014	to 2/8/14 Bard in the Botanics 'Henry V' in the Grounds (nightly except Sundays & Mondays)
18/07/2014	to 2/8/14 Bard in the Botanics 'Henry IV' in the Kibble Palace (nightly except Sundays & Mondays)
18/07/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
19/07/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
20/07/2014	to 21/7/14 Healthy People Healthy Planet event with RBGE – outdoors near Kibble Palace
20/7/14 - 22/7/14	Corroboree Wood Carving Event – with Royal Botanic Garden Edinburgh – on main drive.
20/07/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
21/07/2014	<b>CG Activity</b> Queen's Baton Race – visit to Kibble Palace for photo-opportunity
21/07/2014	<b>CG Activity</b> Health Walk to Kelvingrove Park led by the park rangers
22/07/2014	<b>CG Activity</b> Commonwealth themed tour led by the curator
23/07/2014	<b>CG Activity</b> Commonwealth Plants tour led by the curator
24/07/2014	<b>CG Activity</b> Tree trail tour led by assistant manager
25/07/2014	<b>CG Activity</b> Commonwealth Plants tour led by the assistant curator
25/07/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
26/07/2014	<b>CG Activity</b> Botanic Gardens history tour led by the park rangers
26/07/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
27/07/2014	<b>CG Activity</b> Tree trail tour led by the general manager
28/07/2014	<b>CG Activity</b> Glasshouse tour led by the assistant manager
29/07/2014	<b>CG Activity</b> Commonwealth Plants tour led by the education officer
30/07/2014	<b>CG Activity</b> General tour led by the assistant curator
31/07/2014	<b>CG Activity</b> Tree trail tour led by the curator

### August

01/08/2014	<b>CG Activity</b> Commonwealth Plants tour led by the general manager
01/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
01/08/2014	to 28/8/14 Exhibition of paintings by Margo Winning in tea room
02/08/2014	<b>CG Activity</b> General tour led by the education officer
03/08/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
03/08/2014	<b>CG Activity</b> Botanic Gardens history tour led by the park rangers
04/08/2014	<b>CG Activity</b> Commonwealth Plants tour led by the curator
05/08/2014	Arthritis Information activity in the Kibble Palace
7 & 8/8/14	RSPB information stall with activities for children - Kibble Palace
07/08/2014	Evening Yoga Class in Kibble Palace south wing (private let)
08/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
9/8/14 - 17/9/14	9 day Book Fair in the Hopkirk Building (rental paid)
09/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
10/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
14/08/2014	Evening Yoga Class in Kibble Palace south wing (private let)
14 & 15/8/14	RSPB information stall with activities for children - Kibble Palace
15/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
16/08/2014	Large yoga event on the main lawn
16/08/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
19/08/2014	Pilates Class in the Kibble Palace (private let)
20/08/2014	Evening Yoga Class in Kibble Palace south wing (private let)
21 & 22/8/14	RSPB information stall with activities for children - Kibble Palace
22/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
23/08/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
24/08/2014	Art Class in the Hopkirk Building (private let)
26/08/2014	Pilates Class in the Kibble Palace (private let)
27/08/2014	Evening Yoga Class in Kibble Palace south wing (private let)
28 & 29/8/14	RSPB information stall with activities for children - Kibble Palace
28/08/2014	Friends of Botanic Gardens summer social in the Kibble Palace (evening)
29/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
29/8/14 - 30/9/14	Allie Hunters exhibition of paintings in tea room
30/8/14 & 31/8/14	Fuchsia and Gladioli Show in Kibble Palace + Cactus display / sale
30/08/2014	GDS Photography Workshop in the library (private let)
30/08/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
31/08/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)

### September

02/09/2014	Pilates Class in the Kibble Palace (private let)
03/09/2014	Evening Yoga Class in Kibble Palace south wing (private let)
04/09/2014	Cactus and Succulent Society meeting in the Hopkirk Building
05/09/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
6 & 7/9/14	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
06/09/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
08/09/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
09/09/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
09/09/2014	Pilates Class in the Kibble Palace (private let)

### September (Continued)

10/09/2014	Evening Yoga Class in Kibble Palace south wing (private let)
13/09/2014	Cactus and Succulent Society – all Scotland Show in Kibble Palace
13/09/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
13/09/2014	Kelvin Rotary – publicity stand in the Kibble Palace
14/09/2014	St Gregory's school fun run in the grounds
15/09/2014	Scottish Orchid Society meeting in the Hopkirk Building
16/09/2014	Pilates Class in the Kibble Palace (private let)
17/09/2014	Evening Yoga Class in Kibble Palace south wing (private let)
20/09/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
20/09/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
21/09/2014	Westerly Winds Quintet playing in Kibble Palace – free event
23/09/2014	Scottish Orchid Society meeting in the Hopkirk Building
24/09/2014	Pilates Class in the Kibble Palace (private let)
24/09/2014	RSPB Garden Festival event in Kibble Palace & grounds
26/09/2014	to 29/9/14 Weekend Book Fair in Hopkirk Building (Rental)
26/09/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
27 & 28/9/14	Cactus and Succulent Display and sale in Kibble Palace
27/09/2014	GDS Photography Workshop in the library (private let)
27/09/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
28/09/2014	Glasgow Astronomy Society 'Sun over the Botany' event in flower garden
30/09/2014	Soulwind West singers in Kibble Palace (rental)
30/09/2014	Pilates Class in the Kibble Palace (private let)

### October

02/10/2014	Cactus and Succulent Society meeting in the Hopkirk Building
03/10/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
03/10/2014	to 26/10/14 Susan Christie exhibiting paintings in the tea room
04/10/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
04/10/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
04/10/2014	Yoga Class in Kibble Palace south wing (rental)
05/10/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
11 & 12/10/14	Weekend Book Fair in the Hopkirk Building (rental paid)
11/10/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
11/10/2014	Yoga Class in Kibble Palace south wing (rental)
12/10/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
16/10/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
18/10/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
18/10/2014	GDS Photography Workshop in the library (private let)
18/10/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
20/10/2014	Scottish Orchid Society meeting in the Hopkirk Building
21/10/2014	Stars over the Botany evening led by the Glasgow Astronomy Society
25/10/2014	Yoga Class in Kibble Palace south wing (rental)
26/10/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
26/10/2014	Art Class in Hopkirk Building (private let)
27/10/2014	to 16/11/14 Bishopton Art Group exhibiting paintings in tea room

### November

01/11/2014	German Speaking Kinderclub – lantern making in Hopkirk Building (rental)
01/11/2014	Yoga Class in Kibble Palace south wing (rental)
01/11/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
02/11/2014	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
06/11/2014	Cactus and Succulent Society meeting in the Hopkirk Building
08/11/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
09/11/2014	Art Class in Hopkirk Building (private let)
13 & 14/11/14	RSPB Garden Festival event in Kibble Palace & grounds
15 & 16/11/14	Weekend Book Fair in Hopkirk Building
15/11/2014	Yoga Class in Kibble Palace south wing (rental)
17/11/2014	Scottish Orchid Society meeting in the Hopkirk Building
22/11/2014	GDS Photography Workshop in the library (private let)
22/11/2014	Yoga Class in Kibble Palace south wing (rental)
22/11/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens
23/11/2014	RSPB Garden Festival event in Kibble Palace & grounds
23/11/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
24/11/2014	to 31/12/14 Exhibition of paintings by Jim Dinnen in tea room
29/11/2014	Yoga Class in Kibble Palace south wing (rental)
29/11/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
29/11/2014	Certificate in Practical Horticulture course – Hopkirk Building and Gardens

### December

03/12/2014	The Electric Garden photoshoot – grounds and Kibble Palace
04/12/2014	Cactus and Succulent Society meeting in the Hopkirk Building
05/12/2014	Certificate in Practical Horticulture course finals – Hopkirk Building and Gardens
6 & 7/12/14	Wheelchair Woodturners Craft Fair in Hopkirk Building (private let)
06/12/2014	Yoga Class in Kibble Palace south wing (rental)
11/12/2014	Volunteers Christmas Social in library
13 & 14/12/14	Weekend Book Fair in Hopkirk Building
13/12/2014	GDS Photography Workshop in the library (private let)
13/12/2014	Yoga Class in Kibble Palace south wing (rental)
14/12/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
15/12/2014	Scottish Orchid Society meeting in the Hopkirk Building
20/12/2014	Yoga Class in Kibble Palace south wing (rental)
20/12/2014	GDS Photography Workshop in the library (private let)
21/12/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)
28/12/2014	2 x Wedding Photography bookings – grounds and Kibble Palace (fee applicable)
28 & 29/12/14	2 day Book Fair in the Hopkirk Building (rental paid)
30/12/2014	Wedding Photography booking – grounds and Kibble Palace (fee applicable)



# Aims for 2015

The aim of the education programme at the Gardens is to provide opportunities for all ages to develop a greater understanding of the role of plants within their environment. A range of educational activities are planned for the coming year, each designed to target specific age groups. For primary school pupils, a summer camp is planned which will promote inquiry-based learning, while introducing botanical themes via problem-solving and play. In partnership with the Royal Horticultural Society, we aim to promote horticulture as a potential career option for secondary school pupils, offering a range of work-based learning experiences which will complement Education Scotland's Curriculum for Excellence. To aid those preparing for higher education, we are developing links with Glasgow Caledonian University's Advance Higher Hub to deliver a syllabus which utilises the Gardens' collections and resources. To accommodate a diverse selection of learning experiences, it is proposed that the Fern Garden be adapted into an outdoor learning space to complement the facilities of the Hopkirk Building and to utilise the Garden's natural resources as a classroom.

Developing a programme to promote social inclusion is a key aim of the Gardens for 2015. Horticultural therapy is a proven means of promoting health and wellbeing and we aim to develop links with partner organisations, such as Trellis, to develop tours, practical days and a mentoring scheme. The Gardens' partnership with the University of Strathclyde's Centre for Lifelong Learning will continue to grow in the coming year with an increased range of classes hosted at the Gardens. Engaging with communities across Glasgow is important to our goal of reaching a wider demographic, and to do so, a number of events which celebrate the biodiversity and culture of world regions are proposed. The plant collections at the Gardens are cosmopolitan, representing each habitable continent. Creating links between people and plants will be instrumental in engaging with communities.

In 2015, the Gardens will continue to strengthen its links with conservation partners. Projects such as the International Conifer Conservation Programme (ICCP) rely upon the Gardens and its staff to provide a safe place to develop *ex situ* collections of vulnerable plants. Currently, 52 specimens managed by the ICCP are located both in the Gardens and at Maryhill Park. Expansion and development of the Plant Heritage ® National Collections in 2015 will include using our staff expertise to care for collections of arborescent ferns, Begonias and *Dendrobium* orchids which are threatened in the wild. The Gardens are also committed to protecting our own national flora, and in upcoming years we will develop a collection of plants which are under threat in various habitats across Scotland. This work will help us to meet Target 8 of the Global Strategy for Plant Conservation and form part of our contribution to the International Agenda for Botanic Gardens in Conservation, which the Gardens formerly registered with on 11 August 2005. In addition to conservation, the aforementioned collections are an educational resource, helping to inform the public about the work of conservation partners and the challenges associated with the loss of biodiversity.



(Top) A social group enjoying refreshments in the Kibble Palace (Bottom) Students learning soil preparation techniques during a horticultural class

# Publications List

## News Stories Featuring the Gardens

California kingsnake found in Glasgow's Botanic Garden. BBC News, 5 February 2014.

Expert's at Glasgow's Botanic Gardens battle to save rare plants from being devoured by stick insects. Scottish Daily Record, 9 February 2014

Shakespeare in Glasgow's Botanic Gardens once again. Scotsman, 7 June 2014.

Plant life. Herald Scotland, 30 June 2014.

Scottish star asks public to dig deep for Botanic's tree hub. Stv.tv, 13 July 2014

36 Hours in Glasgow. New York Times, 22 August 2014.

Wildlife Garden Festival will bring nature home to city. Glasgow Evening Times, 9 September 2014.

Cat Cubie launches public appeal to raise funds for tree hub at Glasgow Botanic Gardens. Allinmedia Scotland, 15 Sep 2014.

Work on new St. Enoch Subway entrance starts as part of £5.3m revamp. Stv.tv, 4 November 2014

## Books & Journal Articles Featuring the Gardens

Conway, Hazel. "Public parks and their conservation." *Gardens and Landscapes in Historic Building Conservation* (2014): 193.

Davidson, Michael B., and Peter Merrett. "Rugathodes sexpunctatus (Emerton, 1882) in Britain (Araneae: Theridiidae)." *Arachnology* 16.4 (2014): 113-116.

Watling, Roy. "Johan Frederick Klotzsch's pre-1850 material in the Glasgow Museums collections and its significance." (2014)

Webb, Simon. *The Suffragette Bombers: Britain's Forgotten Terrorists* (2014).

## Journal Articles Authored by Gardens Staff

Ritchie, W (2014) An assessment of CBOL plant DNA barcodes in the genus *Manfreda* Salisb. (Asparagaceae) for utility in species identification and phylogenetic studies. *Bradleya* 32: 172-179.

Ritchie, W (2014) Cultivar Release: × *Polifreda* 'Lindstrom', a Cross Between False Aloe and Mexican Tuberose. *Journal of Environmental Horticulture*. 32(1): 26 - 30.



# Appendices

**Appendix 1** - A selection of publications which have utilised plant material from the Plant Heritage ® National Plant Collection of *Begonia*.

Bluhm, J. (2007). *Microsatellites for genus wide use in Begonia*. MSc Thesis, National Engineering School of Agronomy and Food Sciences, Nancy.

Brennan, A., Bridgett, S., Shaukat Ali, M., Harrison, N., Mathews, A., Pellicer, J., Twyford, A., and Kidner C. (2012) Genomic resources for evolutionary studies in the large, diverse tropical genus *Begonia*. *Tropical Plant Biology* 5:26-276.

Burton, N. (2012). *The evolution of Begonia section Gireoudia*. PhD Thesis, University of Edinburgh.

Cattennoz, P. (2006). *Phantastica-like genes in Begonia*. MSc Thesis, University of Lille.

Dahmeni, F. (2007) *Knox-like genes in Begonia*. MSc Thesis, University of Lille.

Forrest, L.L, Hughes, M. & Hollingsworth P.M. (2005). A phylogeny of *Begonia* using nuclear ribosomal sequence data and non-molecular characters. *Systematic Botany*, 30: 671-682.

Forrest, L.L, & Hollingsworth P.M. (2003). A recircumscription of *Begonia* based on nuclear ribosomal sequences. *Plant Systematics and Evolution* 241: 193-211.

Fuller, D. (2014). *Organelle Phylogeny Incongruence in Begonia*. MSc Thesis, University of Edinburgh.

Goodall-Copestake, W. (2005). Framework Phylogenies for the Begoniaceae. PhD Thesis, University of Glasgow.

Goodall-Copestake, W., Perez-Espona, S., Harris, D.J, & Hollingsworth, P.M. (2005). The early evolution of the mega-diverse genus *Begonia* (Begoniaceae) inferred from organelle DNA phylogenies. *Biological Journal of the Linnean Society* 101: 243-250.

Goodall-Copestake, S., Harris, D.J, & Hollingsworth, P.M. (2009). The origin of a mega-diverse genus: dating *Begonia* (Begoniaceae) using alternative datasets, calibrations and relaxed clock methods. *Botanical Journal of the Linnean Society* 159: 636-380.

Julier, A.(2013) *Stomal patterns in Begonia*. MSc Thesis, University of Edinburgh.

Kidner, C. & Wrigley S. (2010). Patches, pegs and piggies. *New Phytologist*, 187: 137.

Kouzali, I.(2010). *Inheritance of plastid DNA*. MSc Thesis, University of Edinburgh.

Moonlight, P.M. 2013. Biogeography of Neotropical *Begonia*. MSc Thesis, University of Edinburgh.

Plana, V. (2003). Phylogenetic relationships of the Afro-Malagasy members of the large genus *Begonia* inferred from trnL intron sequences. *Systematic Botany*, 28: 693 - 704.

Rajbhandary, S., Hughes, M., Phutthai, T., Thomas, D.C. & Shrestha, K.K. (2011) Asian *Begonia*: out of Africa via the Himalayas? *Gardens' Bulletin Singapore* 63: 277-286.



- Shaukat, M. (2012) *The genetic architecture of species level variation in Begonia*. PhD Thesis, University of Edinburgh.
- Thomas, D.C. (2010). *Phylogenetics and historical biogeography of Southeast Asian Begonia*. PhD Thesis, University of Glasgow.
- Thomas, D.C., Hughes, M., Phutthai, T., Ardi, W.H., Rajbhandary, S., Rubite, R., Twyford, A.D., & Richardson, J.E. (2011). West to east dispersal and subsequent rapid diversification of the mega-diverse genus *Begonia* (Begoniaceae) in the Malesian archipelago. *Journal of Biogeography* 39: 98-113.
- Thomas, D.C., Hughes, M., Phutthai, T., Rajbhandary, S., Rubite, R., Ardi, W.H., Richardson, J. (2011). A non-coding plastid DNA phylogeny of Asian *Begonia* (Begoniaceae): Evidence for morphological homoplasy and sectional polyphyly. *Molecular Phylogenetics and Evolution* 60: 428-444.
- Twyford, A. (2012) *Speciation and Gene Flow in Central American Begonia*. PhD Thesis University of Edinburgh.
- Twyford, A. Ennos, R. White, C. Shaukat Ali M., Kidner, C. (2014) The evolution of sex ratio differences and inflorescence architectures in *Begonia* (Begoniaceae). *American Journal of Botany*, 101: 308-17.
- Twyford, A. Kidner, C. and Ennos R. (2013) Genetic differentiation and species cohesion in two wide spread Central American *Begonia* species. *Heredity* (doi:10.1038).
- Twyford, A. Ennos R. A. & Kidner C. (2013). Development and Characterization of Microsatellite Markers for Central American *Begonia* sect. *Gireoudia* (Begoniaceae). *Applications in Plant Sciences* 1:1200499. doi: 10.3732
- Twyford, A. Kidner, C. Harrison, N. and Ennos, R. (2012) Population history and seed dispersal in wide spread Central American *Begonia* species (Begoniaceae) inferred from plastome derived microsatellite markers. *Botanical Journal of The Linnean Society* 171: 260-276.
- Umbreen, S. (2011) *ARP genes in Begonia leaf evolution*. PhD Thesis, University of Edinburgh.

**Appendix 2** - A list of schools and user groups who visited the Gardens in 2014 for educational activities

<b>Date</b>	<b>Group</b>	<b>No. of Participants</b>	<b>Staff Leaders</b>
08/01/2014	Home Schooling Group	12	L. Bustard
12/02/2014	Strathclyde University	80	L. Bustard & S. Herrington
13/02/2014	Strathclyde University	74	L. Bustard, S. Herrington & W. Ritchie
14/02/2014	Ladywell PS	33	S. Herrington & Gordon Webb
20/02/2014	Drumchapel High SS	26	L. Bustard, S. Herrington & W. Ritchie
20/02/2014	Drumchapel Family Learning Centre	25	L. Bustard, S. Herrington & W. Ritchie
21/02/2014	Burnside PS	28	L. Bustard, S. Herrington & W. Ritchie
25/02/2014	Langside Nursery	29	L. Bustard, S. Herrington & W. Ritchie
25/02/2014	Shawlands Academy SS	24	L. Bustard, S. Herrington & W. Ritchie
26/02/2014	Oakgrove PS	27	L. Bustard & W. Ritchie
27/02/2014	St Paul's High SS	27	L. Bustard, S. Herrington & W. Ritchie
27/02/2014	Craigbank Nursery	29	L. Bustard & W. Ritchie
28/02/2014	Garnetbank PS	26	L. Bustard & C. Nicholson
28/02/2014	Hillhead High SS	24	L. Bustard & W. Ritchie
28/02/2014	Garnetbank PS	24	L. Bustard & C. Nicholson
04/03/2014	Glasgow University	25	L. Bustard & W. Ritchie
04/03/2014	Glasgow University	25	L. Bustard & W. Ritchie
05/03/2014	Young Horticulturalist of the Year Event	20	W. Ritchie
06/03/2014	Glenlee PS	28	L. Bustard & C. Nicholson
11/03/2014	Bishopton PS	46	L. Bustard & C. Nicholson
12/03/2014	Glasgow University	25	L. Bustard & S. Herrington
12/03/2014	Glasgow University	25	L. Bustard & S. Herrington
13/03/2014	St Philomena's PS	10	L. Bustard
17/03/2014	Hillhead PS	33	L. Bustard & W. Ritchie
17/03/2014	Hillhead PS	33	L. Bustard & S. Herrington
18/03/2014	Hillhead PS	31	L. Bustard & W. Ritchie
18/03/2014	Drumchapel Family Learning Centre	30	L. Bustard, S. Herrington & W. Ritchie
18/03/2014	Drumchapel High SS	26	L. Bustard, S. Herrington & W. Ritchie

18/03/2014	Drumchapel Family Learning Centre	30	L. Bustard, S. Herrington & W. Ritchie
18/03/2014	Drumchapel High SS	26	L. Bustard, S. Herrington & W. Ritchie
18/03/2014	Hillhead PS	31	L. Bustard & C. Nicholson
19/03/2014	Hillhead PS	32	L. Bustard & W. Ritchie
20/03/2014	Hillhead PS	33	L. Bustard & S. Herrington
20/03/2014	Thorntree PS	51	L. Bustard & G. Webb
21/03/2014	St Andrews SS	29	L. Bustard
21/03/2014	St Roch's PS	56	L. Bustard, G. Webb, J. McGubbin
21/03/2014	Garthamlock Family Learning Centre	26	L. Bustard & W. Ritchie
24/03/2014	Drumchapel Family Learning Centre	24	L. Bustard
25/03/2014	Ardnahoe Nursery	24	L. Bustard
25/03/2014	Holyrood SS	29	L. Bustard & W. Ritchie
26/03/2014	Antonine PS	27	L. Bustard & G. Webb
01/04/2014	Muirston Over 50's Group, Livingston	30	L. Bustard
02/04/2014	Glasgow Clyde College	15	L. Bustard
02/04/2014	Kelso Nursery	17	L. Bustard
02/04/2014	St Thomas Aquinas SS	32	L. Bustard
22/04/2014	Strathclyde University	70	L. Bustard, E. Donaldson & W. Ritchie
22/04/2014	Strathclyde University	40	L. Bustard & W. Ritchie
25/04/2014	Impact Arts & Crafts Café members	15	S. Herrington
29/04/2014	Glasgow Clyde College	15	J. McCulloch
29/04/2014	Hillhead High School	32	L. Bustard & W. Ritchie
29/04/2014	Cowcaddens Day Nursery	29	J. Hancox
01/05/2014	Cowcaddens Day Nursery	23	J. Hancox
01/05/2014	Kelso Nursery	27	L. Bustard
01/05/2014	St Thomas Aquinas SS	21	L. Bustard
06/05/2014	Sandy Rd. Day Nursery	24	John Hancox
06/05/2014	Glasgow Academy	57	L. Bustard, S. Herrington & W. Ritchie
08/05/2014	St Joseph Academy (France)	24	L. Bustard
09/05/2014	Renfrew Street Nursery	28	L. Bustard

09/05/2014	Hillhead SS	15	S. Herrington
13/05/2014	Noble PS	24	W. Ritchie & S. Herrington
13/05/2014	All Saint's SS	25	W. Ritchie & S. Herrington
13/05/2014	Milton Community Nursery	28	W. Ritchie & S. Herrington
19/05/2014	Notre Dame Primary School	21	L. Bustard
19/05/2014	Notre Dame Primary School	30	L. Bustard & W. Ritchie
20/05/2014	Notre Dame Primary School	30	L. Bustard & G. Webb
20/05/2014	Notre Dame Primary School	30	L. Bustard
21/05/2014	Plains PS	24	W. Ritchie
27/05/2014	Renfrewshire U3A Gardening Group	15	L. Bustard
28/05/2014	Home Schooling Group	14	L. Bustard
29/05/2014	Glasgow Clyde College	16	L. Bustard
30/05/2014	Knightswood SS	50	L. Bustard
02/06/2014	Glasgow Clyde College	18	L. Bustard
03/06/2014	Holyrood SS	26	L. Bustard
03/06/2014	Dean Burn PS	29	S. Herrington & C. Nicholson
03/06/2014	Clevedon Secondary School	9	L. Bustard
04/06/2014	Glasgow University	25	L. Bustard
05/06/2014	Glasgow Clyde College	18	L. Bustard
10/06/2014	St Rochs SS	26	L. Bustard
10/06/2014	Hamiltonhill Family Learning Centre	28	L. Bustard
12/06/2014	Victoria Park PS, Carlisle	6	L. Bustard
13/06/2014	Kirkbean PS	25	L. Bustard
13/06/2014	Glasgow Academy	66	S. Herrington, C. Nicholson & G. Webb
15/06/2014	Woodlands Community Garden	15	L. Bustard
16/06/2014	Holy Family PS	32	L. Bustard & S. Herrington
17/06/2014	Drumchapel Family Learning Centre	25	L. Bustard & S. Herrington
17/06/2014	Drumchapel High School	28	W. Ritchie
17/06/2014	Aviemore PS	30	L. Bustard
19/06/2014	Barshare PS	30	W. Ritchie

19/06/2014	Glasgow Gaelic SS	48	W. Ritchie & S. Herrington
21/08/2014	Glenwood Day Care Centre	9	L. Bustard
25/08/2014	Crossford PS	4	L. Bustard
03/09/2014	Crossford PS	4	L. Bustard
04/09/2014	Barmulloch PS	15	L. Bustard
08/09/2014	Urban Roots	7	S. Jakusz & M. O'Laughlin
09/09/2014	Barmulloch PS	15	L. Bustard
09/09/2014	Barmulloch PS	15	L. Bustard
10/09/2014	Jordanhill SS	50	L. Bustard, S. Herrington & W. Ritchie
11/09/2014	Jordanhill SS	50	L. Bustard, S. Herrington & W. Ritchie
16/09/2014	Crossford PS	4	L. Bustard
17/09/2014	Helenslea Day Nursery	13	L. Bustard
17/09/2014	Deanpark Nursery	10	S. Herrington
17/09/2014	Glasgow Clyde College	10	L. Bustard
18/09/2014	High School of Glasgow	56	L. Bustard, S. Herrington & W. Ritchie
19/09/2014	Glasgow Wildlife Garden Festival	28	RSPB South & West Scotland
20/09/2014	Open Doors Tours	51	S. Herrington
21/09/2014	Open Doors Tours	82	S. Herrington
22/09/2014	Hyndland PS	30	L. Bustard
23/09/2014	Hyndland PS	30	L. Bustard
23/09/2014	Chirnsyde PS	36	L. Bustard & C. Nicholson
24/09/2014	Glasgow Wildlife Garden Festival	28	L. Bustard
25/09/2014	Miltonbank PS	25	L. Bustard
01/10/2014	Crossford PS	4	L. Bustard
02/10/2014	Glasgow Clyde College	16	L. Bustard
02/10/2014	Miltonbank PS	25	L. Bustard
03/10/2014	Kelvinside Academy	24	L. Bustard
06/10/2014	Cuthbertson PS	32	W. Ritchie & C. Nicholson
07/10/2014	Royal Botanic Garden, Edinburgh	17	W. Ritchie
10/10/2014	Kelvinside Academy	24	W. Ritchie & C. Nicholson



27/10/2014	Belmont House PS	9	L. Bustard
31/10/2014	Maryhill Integration Network	8	L. Bustard
04/11/2014	St. Charles PS	29	W. Ritchie
05/11/2014	St Theresa's PS	26	The Countryside Rangers
05/12/2014	Drumore PS	10	L. Bustard & F. McClosky
08/12/2014	Glasgow Clyde College	10	L. Bustard
10/12/2014	Eaglesham Ladies Group	12	W. Ritchie
16/12/2014	Clyde College Language Students	20	L. Bustard
17/12/2014	Tomorrow's Women Group	8	L. Bustard
<b>Total</b>	<b>125</b>	<b>3358</b>	

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