

**St. Andrews.***Saturday, 21st June 1851.*

Party of 51 went to St. Andrews. Started at 8.50 a.m. and proceeded to Leuchars, thence by coach to St. Andrews. Fares going and coming, 5s. 10d.

Visited castle, cathedral, and other places. Walked along shore to the west.

## Gathered :—

Sagina maritima	Sclerochloa loliacea
Lepigonum marinum	Triticum laxum
Sclerochloa maritima (on the pier)	Elymus arenarius

Left St. Andrews at 5.7 p.m. and reached Edinburgh at 7.45 p.m.

**Charleston, Queensferry.***Saturday, 28th June 1851.*

Met at Granton at 9 a.m. and proceeded by Stirling boat to Charleston. Party, 60. Walked by shore to Queensferry. Examined Ferry Hills. Returned by boat and reached Edinburgh at 7 p.m. Fares going and coming, 1s.; pier, Granton, 4d.; pier, Queensferry, 6d.

## Plants gathered were :—

Nasturtium sylvestre (Inverkeithing)	Melilotus arvensis (St. Davids)
Alyssum calycinum (Ferry Hills)	Vicia lutea (Ferry Hills)
Hesperis matronalis (woods at Limekilns)	Spiræa Filipendula
Sinapis alba	Sedum villosum
Diplotaxis tenuifolia (St. Davids)	Haloscias scoticum (Inverkeithing)
Viola hirta	Dipsacus sylvestris
	Silybum Marianum

Hieracium aurantiacum (woods at Limekilns)	Veronica polita (Inver- keithing)
Campanula Rapunculus (churchyard near Lime- kilns, Mr. Duff)	Arum maculatum (woods at Limekilns)
Anagallis arvensis	Arundo epigejos (St. Davids)
Cynoglossum officinale (Rosyth)	Serrafalcus commutatus
	Lolium italicum
	Triticum junceum

No *Oxytropis uralensis* seen.

### North Berwick, Dirleton, Gullan, Aberlady, Gosford.

*Saturday, 12th July 1851.*

Party of 50 met at the North British Railway Station at 8 a.m.  
and proceeded to North Berwick. Return tickets, 2s.

Walked along common at North Berwick, gathering :—

Helosciadium repens	Festuca rubra
Thrinicia hirta	Equisetum variegatum
Erythraea Centaurium	Lycopodium selaginoides
Habenaria viridis	

On Dirleton Common :—

Fumaria micrantha	Galium Mollugo
Alyssum calycinum	Centaurea Scabiosa
Reseda lutea	Calamintha Acinos
Silene conica	

At Dirleton Castle :—

Sedum reflexum	Parietaria erecta
Smyrnum Olusatrum	

At Gullan :—

Ranunculus trichophyllus	Potamogeton plantagineus
„ confusus	„ oblongus
Cerastium arvense	„ pusillus
Carduus nutans	Carex disticha
Utricularia vulgaris	„ paniculata
Alisma ranunculoides (Gullan Loch)	

At Luffness :—

Hippuris vulgaris		Scirpus maritimus
Scirpus Tabernæmontani		

Near Aberlady :—

Trifolium fragiferum		Lepturus filiformis
----------------------	--	---------------------

Near Gosford :—

Malva moschata		Listera ovata
Geranium sanguineum		Knappia agrostidea
Inula dysenterica		Botrychium Lunaria
Hippophaë rhamnoides		

Joined train at Longniddry at 7 and returned to Edinburgh about 8 p.m.

### Linlithgow, Blackness, Hopetoun, Niddry Castle, Winchburgh.

*Saturday, 19th July 1851.*

Party of about 30 met at Edinburgh and Glasgow Railway Station at 8 o'clock and proceeded to Linlithgow. Fares to Linlithgow and back from Winchburgh, 1s. After visiting palace and church, walked to Binns, thence to Blackness and Hopetoun and Winchburgh, joining train at 7.15 p.m.

Linlithgow Palace :—

Parietaria officinalis

Linlithgow Loch :—

Ranunculus aquatilis		Stellaria glauca
(various forms)		

At Binns :—

Hypericum humifusum		Sparganium ramosum
Typha latifolia		

Numerous maritime plants near Blackness.

Niddry Castle :—

Dianthus deltoides		Verbascum Thapsus
--------------------	--	-------------------

Banks of Canal near the castle :—

*Genista tinctoria*

### Ben Lomond.

*Thursday, 24th July 1851.*

Party consisting of J. H. Balfour, Hugh Cowan, William Cunningham, George Drysdale, Alex. E. Duff, Alex. D. Gulland, J. K. Jackson, Charles Jenner, Chris. Kerr, John Kerr, William Liddell, R. M'Dowall, John Matthews, J. Rany, James Robertson, John Ross, John Sibbald, Patrick Heron Watson, Christ. Young, met at the Edinburgh and Glasgow Railway Station at 11 a.m. and proceeded to Glasgow. Left baggage at hotel close to railway, went to St. Rollox and saw Mr. Tennant's works. Then visited the Cathedral and the University, saw the Hunterian Museum through the kindness of Dr. Allen Thomson. Dined at Josez Hotel at 3 p.m. for 1s. 6d. each. Joined the steamboat at the Broomielaw at 4 p.m., and proceeded to Bowling and thence by train to Balloch. At Balloch went on board steamboat on Loch Lomond about 6 p.m. and reached Inverarnan about 9.30 p.m. Return tickets had been granted by the E. & G. Railway, third class 5s., Dumbarton and Loch Lomond Co., first class 4s., total 9s. At Inverarnan the party were comfortably accommodated at M'Lellan's Inn.

*Friday, 25th July 1851.*

Party rose about 4 a.m. and proceeded to gather :—

<i>Pinguicula lusitanica</i>	<i>Malaxis paludosa</i>
<i>Quercus</i> (many forms in Glen Falloch)	<i>Hymenophyllum Wilsoni</i>
	<i>Lycopodium inundatum</i>

Proceeded to the rocks on the northern side of Ben Lomond and thence to the summit.

Gathered :—

<i>Cochlearia alpina</i>	<i>Saxifraga nivalis</i>
<i>Silene acaulis</i>	<i>Gnaphalium supinum</i>
<i>Cerastium alpinum</i>	<i>Poa alpina</i>
<i>Sibbaldia procumbens</i>	<i>Polystichum Lonchitis</i>



Reached Rowardennan in time for the steamboat at 4.30 p.m. Proceeded to Glasgow. Joined train to Edinburgh at 8.30 p.m. and reached Edinburgh about 10.30 p.m.

---

EXCURSIONS IN 1852.

Canal, Slateford, Colinton, Woodhall, Currie.

*Saturday, 15th May 1852.*

Met at Canal Basin, Port Hopetoun, at 10 a.m. Party about 90. Walked by Canal banks to Slateford, Colinton, Woodhall, and Currie. Returned by train passing Currie at 4.16 p.m.

Picked :—

Ranunculus auricomus	Orchis mascula
Berberis vulgaris	Arum maculatum (Colinton
Meconopsis cambrica	Woods, right hand going
Cardamine amara	up)
Geranium phæum	Bryum capillare
Prunus Padus	Agaricus campestris
Saxifraga hypnoides (near	Polyporus squamosus
Colinton)	Lepidodendron (near Currie)
Scrophularia vernalis	

---

Gorebridge, Arniston, Dalhousie.

*Saturday, 22nd May 1852.*

Party of 100 proceeded by train at 11 to Gorebridge. Return tickets, 1s. Walked to Arniston and thence to Dalhousie. Joined the train at 7.30 p.m.

Among the plants gathered were :—

At Arniston :—

Aconitum Napellus	Saxifraga Geum
Cardamine amara	„ umbrosa
Staphylea pinnata	Ribes nigrum
Spiræa salicifolia	Lilium Martagon
Pyrus Malus	Paris quadrifolia

At Dalhousie :—

Chelidonium majus  
Cardamine amara  
Stellaria uliginosa  
Pyrus Malus

Ribes alpinum  
Daphne Laureola  
Neottia Nidus-avis  
Arum maculatum

### Dysart, Wemyss.

Saturday, 29th May 1852.

Party between 80 and 90 met at Northern Railway Station at 9.45 a.m. and proceeded to Dysart. Fare, 1s. 4d.

Met Lord Rosslyn's gardener and walked through Dysart Woods, where we gathered :—

Aconitum Napellus  
Saxifraga Geum  
" umbrosa  
" granulata  
Doronicum plantagineum  
Anchusa sempervirens

Polygonum Bistorta  
Listera ovata (in woods near  
Dysart)  
Convallaria majalis  
Ornithogalum umbellatum

Several plants have escaped from garden, as :—

Geum agrimonioides  
Symphytum tauricum

Narcissus poeticus

Proceeded along the shore to Wemyss, gathering many interesting coal-fossils, as specimens of *Calamites*, *Pecopteris*, *Neuropteris*, and *Sphenopteris* ;

also :—

Fumaria officinalis  
Cochlearia officinalis  
Reseda Luteola  
Silex maritima  
Stellaria uliginosa  
Honckenya peploides  
Erodium cicutarium  
Astragalus hypoglottis  
Sanicula europæa

Dipsacus sylvestris (not in  
flower, in great profusion)  
Leontodon lævigatus  
Armeria maritima  
Plantago Coronopus  
Triglochin palustre  
Carex arenaria  
" hirta  
Corallina officinalis

Returned by the road to Dysart, and reached it at 4.20 p.m., in time for the train.

### Midcalder, Dalmahoy, Ravelrig, Currie.

*Saturday, 5th June 1852.*

Party of 85 proceeded by train at 7.45 a.m. to Midcalder. Walked to Dalmahoy, Ravelrig, and Currie, and returned by train passing Currie at 4.16 p.m.

Among the plants gathered were:—

Helianthemum vulgare	Drosera rotundifolia
Viola palustris	Linnæa borealis
„ sylvatica	Pyrola minor (not in flower)
„ canina	Trientalis europæa
„ tricolor	Pinguicula vulgaris
„ lutea	Corallorrhiza innata

### Cockburnspath, Dunglass Woods and Dene.

*Saturday, 12th June 1852.*

Party of nearly 70 met at the North British Railway Station at 8 and proceeded to Cockburnspath. Return tickets, 2s. 6d. Met Mr. Hardy of Penmanshiel at Cockburnspath Station. Mr. Buist sent the forester to conduct the party through Dunglass Woods. Visited Dunglass Dene, going up on the east and returning on the west side.

Gathered:—

Berberis vulgaris	Circæa lutetiana
Cardamine amara	Viburnum Lantana
Viola odorata (in fruit)	Vinca major
Hypericum calycinum	„ minor
Geranium phæum	Veronica montana
„ sylvaticum	Neottia Nidus-avis
Ilex Aquifolium	Carex pendula
Acer campestre	

Various common ferns in great luxuriance.

Eranthis hyemalis	Scolopendrium vulgare (in
Artemisia Absinthium (in	great profusion)
leaf)	Equisetum Telmateia
Anchusa sempervirens	Polyporus squamosus
Luzula pilosa	

Visited the sea-shore and walked along it as far as Pease Burn and ascended the burn picking *Malva rotundifolia*.

In Pease Dene :—

*Polystichum angulare* (in abundance).

On sea-shore, numerous ordinary sea-weeds :—

Glaucium luteum	Astragalus Glyciphyllus
Cochlearia officinalis	Ceanothe crocata
Silene maritima	Armeria maritima
Honckenya peploides	Plantago maritima
Anthyllis Vulneraria	Equisetum palustre
Astragalus hypoglottis	„ hyemale

Near shore :—

Circaea lutetiana	Salix Caprea
Carduus tenuiflorus	„ viminalis
Chenopodium Bonus-Henricus	

Returned by train passing Cockburnspath at 6 and reached Edinburgh at 7.50 p.m.

### Dunfermline, Knock Hill, Black Devon, Saline Hill.

*Saturday, 19th June 1852.*

Party of 50 proceeded by the train at 6.30 a.m. by Perth and Dundee Railway to Dunfermline. Arrived about 9 and breakfasted at the Royal Hotel for 1s. a head. Return tickets, 1s. 9d.

Dr. James Dewar met the party and gave directions as to route. About 6 or 8 were too late for the train and joined the party in the after part of the day. Walked north from Dunfermline to Lochend, where *Meum athamanticum* grew, then struck off to the left by a farm-house to a pond, where we found :—

Nuphar luteum	Potamogeton crispus
Hippuris vulgaris	Scirpus Tabernæmontani
Cicuta virosa	Carex teretiuscula
Potamogeton natans	" curta
" lanceolatus	

*Nymphaea alba* is also said to grow here.

Then walked through a wet mountain country towards Knock, gathering on the way :—

Vaccinium Oxycoccus	Carex pauciflora
Salix repens	" irrigua

Went over the eastern part of Knock Hill, where grew :—

Viola lutea (yellow and blue)	Trientalis europæa
Sedum villosum	Botrychium Lunaria
Antennaria dioica	

Went to banks of Black Devon and gathered :—

Rubus saxatilis	Polygonum viviparum
Epilobium angustifolium (not in flower)	Gymnadenia conopsea
Tanacetum vulgare	" albida
Hieracium prenanthoides	Habenaria bifolia
(not in flower)	Serrafalcus commutatus

On banks there are also found :—

Pyrola rotundifolia	Pyrola media
---------------------	--------------

Near Knock :—

Trollius europæus (picked in large quantity in several places)	Saxifraga tridactylites
--	-------------------------

Returned by the eastern (middle) Saline Hill, gathering :—

Allosorus crispus (on its western side)	Botrychium Lunaria
	Lycopodium Selago

Came across the country direct to Dunfermline. Picked :—  
*Lepidium Smithii* on hill where *Asplenium alternifolium* is said  
 to have been found. Dr. Dewar sent *Botrychium Lunaria*  
 and *Genista anglica* from Torryburn.

**St Boswells, Dryburgh Abbey, Bemersyde, Gladswood,  
 Eildon Hills, Melrose.**

*Saturday, 26th June 1852.*

Party of about 100 met at the North British Railway Station at  
 7.45 and proceeded by train to St. Boswells. Return fare to St.  
 Boswells and back from Melrose, third class, 3s. After reaching  
 St. Boswells proceeded to Dryburgh Abbey, crossing the ferry ;  
 rd. paid at ferry and 3d. to enter Dryburgh. After visiting the  
 ruins, walked along banks of Tweed by Bemersyde and Gladswood  
 as far as the bridge near Melrose. Crossed the bridge and  
 visited the Eildon Hills, then visited the Abbey at Melrose, and  
 returned to Edinburgh by the train at 6.15 p.m.

The following are some of the plants gathered :—

**Gladswood :—**

Thalictrum minus	Galium pusillum
Berberis vulgaris	Solidago Virgaurea
Arabis hirsuta	Centaurea nigra
Viola hirta	Vinca minor
Malva moschata	Origanum vulgare
Tilia grandifolia	Mentha viridis
Geranium sanguineum	Betula alba
"    nodosum	Salix fragilis
"    sylvaticum	"    alba
"    lucidum	Populus alba
Euonymus europæus	"    tremula
Vicia sylvatica	Carex sylvatica
Prunus communis	Melica nutans
Pyrus Aria	"    uniflora
Cornus sanguinea	Juniperus communis
Galium boreale	Asplenium Adiantum-nigrum
"    Mollugo	"    Trichomanes

Dryburgh :—

<i>Aquilegia vulgaris</i>	<i>Ligustrum vulgare</i>
<i>Staphylea pinnata</i>	<i>Polemonium cæruleum</i>
<i>Ononis arvensis</i>	<i>Verbascum Thapsus</i>
<i>Potentilla reptans</i>	<i>Lilium Martagon</i>
<i>Pyrus communis</i>	

Banks of Tweed, near Dryburgh :—

<i>Ranunculus aquatilis</i>	<i>Linaria vulgaris</i>
<i>Symphytum officinale</i>	<i>Mentha viridis</i>

Near Dryburgh :—

<i>Clematis Vitalba</i>	<i>Anthemis arvensis</i>
<i>Rosa spinosissima</i>	<i>Plantago media</i>
„ <i>tomentosa</i>	<i>Salix cinerea</i> , var. <i>aquatica</i>
„ <i>rubiginosa</i>	<i>Scirpus sylvaticus</i>
„ <i>canina</i>	

Bemersyde :—

<i>Meconopsis cambrica</i>	<i>Buxus sempervirens</i>
<i>Doronicum Pardalianches</i>	<i>Polystichum aculeatum</i>
<i>Mentha viridis</i>	<i>Lastrea Filix-mas</i> , var. <i>incisa</i>

Near Melrose :—

<i>Lepidium Smithii</i>	<i>Anthemis arvensis</i>
-------------------------	--------------------------

Eildon Hills :—

<i>Sinapis alba</i> (fields near)	<i>Allosorus crispus</i>
<i>Antennaria dioica</i>	<i>Lycopodium Selago</i>
<i>Listera cordata</i>	

Melrose Abbey :—

<i>Asplenium Ruta-muraria</i>	
-------------------------------	--

---

Burntisland, Aberdour, Donibristle, St. Davids,  
Inverkeithing, North Queensferry.

*Saturday, 3rd July 1852.*

Party of about 50 met at Granton at 10 and proceeded to Burntisland. Dr. Christison and Dr. James Simpson were in the

boat. Walked by the shore to Starly Burn and Aberdour. Entered Donibristle gate (permission given), visited the garden, and then proceeded to St. Davids, Inverkeithing, and Queensferry, meeting the steamboat there at 6.30 p.m. Expenses, 2s. 6d. Amongst plants collected were:—

At Donibristle:—

<i>Thalictrum minus</i>	<i>Medicago maculata</i>
„ <i>majus</i>	<i>Dipsacus sylvestris</i>
<i>Sagina subulata</i>	<i>Allium Scorodoprasum</i>

At North Queensferry:—

<i>Thalictrum minus</i>	<i>Astragalus Glyciphyllos</i>
„ <i>majus</i>	<i>Spiræa Filipendula</i>

At St. Davids:—

<i>Reseda lutea</i>	<i>Haloscias scoticum</i>
<i>Geranium pyrenaicum</i>	<i>Matricaria Chamomilla</i> (field near)
<i>Melilotus officinalis</i>	
<i>Spiræa Filipendula</i>	<i>Arundo epigejos</i>
<i>Potentilla reptans</i>	

At Inverkeithing:—

<i>Saponaria officinalis</i>	<i>Suaeda maritima</i>
<i>Spiræa Filipendula</i>	<i>Sclerochloa maritima</i>
<i>Haloscias scoticum</i>	„ <i>distans</i>
<i>Sambucus Ebulus</i>	

In Aberdour Woods:—

<i>Circea lutetiana</i>	<i>Rumex viridis</i>
-------------------------	----------------------

At Aberdour:—

<i>Lepigonum marinum</i>	<i>Carex distans</i>
<i>Solanum Dulcamara</i>	„ <i>extensa</i>
<i>Blysmus rufus</i>	

At Burntisland:—

<i>Sagina maritima</i>	<i>Sclerochloa loliacea</i>
<i>Sclerochloa maritima</i>	



**Beattock, Garpol Linn, Beld Crag.***Saturday, 10th July 1852.*

Party of about 40 met at the Caledonian Railway Station at 7.30 a.m. and proceeded by train at 7.45 to Beattock. Return tickets, including the returning by the express train at night, 4s. (Some went by cheaper train for 2s. 6d., returning at 4.28 by another cheap train.)

At Beattock Station met the Rev. Mr. Little of Kirkpatrick Juxta, who directed us on our way and accompanied us to the Garpol Linn, where we got many good plants. Then we walked across the country to the Beld Crag, a rich locality. On our way back to the station visited the Manse garden, where many good alpine are cultivated by Mr. Little.

Reached the station about 6.45 p.m. in time for tea, and returned by express train at 7.44, reaching Edinburgh at 9.30.

List of the plants got :—

**Garpol Linn :—**

<i>Aquilegia vulgaris</i>	<i>Hymenophyllum Wilsoni</i>
<i>Rubus carpinifolius</i>	<i>Cystopteris fragilis</i>
„ <i>saxatilis</i>	<i>Lastrea Oreopteris</i>
<i>Vaccinium Oxycoccus</i> (near)	<i>Polypodium Dryopteris</i>
<i>Gymnadenia conopsea</i> (near)	„ <i>Phegopteris</i>
„ <i>albida</i> (near)	

**At Beld Crag :—**

<i>Pyrola secunda</i>	<i>Holcus mollis</i>
<i>Carex sylvatica</i>	<i>Asplenium viride</i>

**Near Beattock :—**

<i>Lepigonum rubrum</i>	<i>Potamogeton oblongus</i>
<i>Genista tinctoria</i>	<i>Carex pallescens</i>
<i>Spiræa salicifolia</i>	„ <i>lævigata</i>
<i>Jasione montana</i>	„ <i>fulva</i>
<i>Ligustrum vulgare</i>	<i>Ophioglossum vulgatum</i>
<i>Rumex aquaticus</i>	<i>Lycopodium clavatum</i>

**Near Beld Crag :—**

<i>Hypericum humifusum</i>	<i>Veronica Anagallis</i>
<i>Veronica scutellata</i>	<i>Allosorus crispus</i>

Mr. Little gave us a specimen of *Woodsia ilvensis* from the hills near Moffat.

**North Berwick, Canty Bay, Bass, Tantallon Castle,  
Dirleton.**

*Saturday, 17th July 1852.*

Party of 46 met at North British Railway Station at 8 a.m. and proceeded by train to North Berwick. Return tickets, 2s. From North Berwick walked by Canty Bay. Some (about 34) went to the Bass in G. Adam's boats. Twelve went to Tantallon Castle and walked by the shore and common to Dirleton, where the whole party met about 5.30 p.m. Returned by train at 6.23 p.m.

Some of the plants gathered were :—

At North Berwick :—

Thalictrum minus	Habenaria viridis
Papaver Argemone	Phleum nodosum
Eryngium maritimum	Triticum repens
Helosciadium repens	„ laxum
Carduus Marianus	„ junceum
Leontodon lævigatus	Equisetum palustre, var.
Thrinia hirta (common)	procumbens
Anagallis tenella	Equisetum variegatum
Listera ovata	

At and near Canty Bay :—

Silene noctiflora	Tragopogon minor
Scabiosa Columbaria	Hyoscyamus niger

At and near Tantallon :—

Lepidium latifolium	Sempervivum tectorum
---------------------	----------------------

Dirleton :—

Fumaria micrantha (near)	Galium Mollugo
Reseda lutea	Centaurea Scabiosa
Cerastium arvense	Lamium intermedium

## At Dirleton Castle :—

Sedum album  
 „ reflexum

Smyrniolum Olusatrum  
 Centranthus ruber

## Dirleton Common :—

Alyssum calycinum  
 Silene conica

Calamintha Acinos

## On the Bass :—

Lavatera arborea

Beta maritima

---

**Arran, Largs, Wemyss Bay.**

*Thursday, 22nd July 1852.*

Party consisting of J. H. Balfour, Andrew Beatson Bell, George C. Bell, James N. Bennie, James S. Beveridge, George S. Blackie, William B. Boyd, James T. Brown, William Bryce, Philip Cockold, Alex. Cowan, Alex. Fraser, James Gardner, Frederick Gourlay, Alex. Johnston, W. Keddie, Chris. Kerr, junior, John Locking, James M'Allum, James M. Gregor, Valentine M. M'Master, James Alex. Menzies, Charles Popham Miles, Robert Osborne, James Peddie, junior, David Ross, John Ross, Robert Sharpe, Alex. R. Simpson, John Spittal, Robert L. Stuart, James G. Surene, J. Sutherland, William B. Turner, E. W. Wakefield, George H. Wakefield, John E. Wakefield, Arch. Young, James Young, proceeded by train at 11 a.m. on Thursday, 22nd (after lecture), to Glasgow, third class. Return tickets, allowing party to return on Saturday or Monday, 5s.

Arrived at Glasgow at one, saw model of Arran in Andersonian. Joined boat at Broomielaw at two, along with Mr. Miles, Keddie, and Jardine. Mr. Connal had a cart waiting for the baggage. Evening fine. Reached Brodick about 8 p.m.

Some difficulty in getting beds, Mrs. Jamieson had been previously written to on the subject. She secured beds in various farm-houses and cottages. Walked along shore to Invercloy in the evening, picking *Brassica monensis*, *Mertensia maritima*, *Triticum laxum*.

*Friday, 23rd July 1852.*

Breakfasted before 7 a.m. and then started about 7.45 a.m. for Goatfell ; reached the top about 11, gathering:—

Radiola Millegrana	Lycopodium Selago
Alchemilla alpina	„ alpinum
Saxifraga stellaris	„ selaginoides
Drosera anglica	Batrachospermum vagum
Sedum Rhodiola	Conferva alpina (below
Oxyria reniformis	mountain)
Carex rigida	

Numerous lichens for analysis by Dr. George Wilson were picked.

Descended by a very steep descent into Glen Sannox. Walked to the shore. Gathered:—

Drosera anglica	Rhynchospora alba
-----------------	-------------------

Also caught a viper. Bathed at Sannox and walked by shore to Corrie, visited lime-quarries, interesting from quantity of *Productus*, then proceeded by the shore to Brodick, which was reached about 7.30 p.m.

Other plants gathered were:—

Sagina apetala	Erythræa linarifolia
Hypericum Androsæum	Lycopus europæus
„ humifusum	Scutellaria galericulata
Parnassia palustris	Stachys palustris
Cotyledon Umbilicus	„ ambigua
Sedum anglicum	Mentha sylvestris, var. velu-
Lythrum Salicaria	tina (near Brodick)
Circæa alpina	Atriplex Babingtonii
Ænanthe Lachenalii	Juncus maritimus
Pastinaca sativa (near Corrie)	„ supinus
Petroselinum sativum (near	Scolopendrium vulgare
Corrie)	Cystopteris fragilis
Solidago Virgaurea	Lastrea Foeniseii
Anagallis tenella	Polypodium Dryopteris
Samolus Valerandi	„ Phegopteris
Erythræa Centaurium	Osmunda regalis

*Saturday, 24th July 1852.*

Party left Brodick by steamboat at 6.30 a.m., reached Largs about 8.30. Dr. Greville met the party. Several went on to Glasgow and to other places on the Clyde. Thirty sat down along with Dr. G. in the Brisbane Arms to breakfast. Mr. Cunningham had kindly provided breakfast for the whole party.

After breakfast the party walked by the shore to Wemyss Bay, gathering on the road the following specimens:—

Lepidium Smithii	Suaeda maritima
Raphanus maritimus	Hippophaë rhamnoides
Lepigonum marinum	Scirpus pauciflorus
Hypericum dubium	Blysmus compressus
„ maculatum	„ rufus
Malva moschata	Rhynchospora alba
Spiræa salicifolia	Carex extensa
Cotyledon Umbilicus (abun-	Triticum repens
dant at Wemyss Bay)	„ laxum
Sedum anglicum	„ junceum
Lythrum Salicaria	Asplenium marinum (Wemyss
Carum verticillatum	Bay)
Aster Tripolium	Scolopendrium vulgare
Anagallis tenella	Osmunda regalis
Samolus Valerandi	Ceramium rubrum (various
Erythraea linarifolia	states)
Mertensia maritima	Desmarestia aculeata
Scutellaria galericulata	Fucus ceranoides (fine speci-
Beta maritima	men)

On reaching Wemyss Bay, party went on board the steamboat and reached Glasgow about 6.30 p.m. Visited college, cathedral, and cemetery, and after getting tea went by train at 8.30 p.m. to Edinburgh.

### Ireland.

*Friday, 6th August 1852.*

A party consisting of J. H. Balfour, John Sutherland, Philip Cockell, Alexander Cowan, P. Neill Fraser, William John

Menzies, D. C. McCallum, John Sibbald, left Edinburgh this day by the train at 11 for Glasgow, provided with boxes, boards, and paper, and all the apparatus required for a botanical excursion.

Reached Glasgow about one and proceeded to the Broomielaw to join the Dublin steamboat the "Herald," found that the boat had sailed and that they must join it at Greenock, sailed by Arran boat at 2 p.m., met Middleton and Alston and Hussey on board, landed at Greenock about four and got berths on board the "Herald," which sailed at 5.20. Had a good passage in the evening, but when opposite Ailsa Craig a squall came on with rain, and there was a good deal of pitching during the night. Lord and Lady Gough were on board.

*Saturday, 7th August 1852.*

The wind continued strong this morning, and very few of the party breakfasted on board. We reached Dublin about 9 a.m. and proceeded to the Gresham, where most of us breakfasted. Dr. Mackay called after breakfast and kindly accompanied us to Trinity College; saw the buildings, chapel, dining hall, and then went to the museum, where we met Dr. Robert Ball and Professor Allman. The museum does great credit to Ball's exertions. He gave me hints as to a plan of fastening bottles—viz., to fit a rim of indiarubber, such as that used for letters, to the mouth of the jar, and then put a round piece of glass above it so as to close the mouth, and to hold this firm by means of a bit of brass curved in the centre and worked into the rim on each side. Several preparations were shown well preserved in this way. Visited Ball's fernery at 3 Grange Road, saw many excellent ferns growing well. He gave a suggestion as to the mode of making diagrams and tables, by using oil paint (such as that contained in tin-tubes) with common naphtha (6d. or 1s. per gallon), and lay it on the paper with a brush; the mixture dries soon.

From Ball's proceeded with Dr. Mackay to Glasnevin Garden and visited the houses. Mr. Niven was unfortunately absent. During our visit a thunderstorm came on and we were detained long in the houses. The houses are new and well constructed and contain many good plants. Noticed particularly

the mode of growing bananas in the earth of the house in clusters. It gives a more tropical aspect and shows the habit of the plant. *Cyanothes Loddigesii* was in flower. *Victoria* grown in a small tank, not sufficient to enable it to flower. Fine specimens of *Banksia* in flower. Examined some *Triticum*, one of which seemed to be *Triticum laxum*. After seeing Glasnevin, went down to the College Botanic Garden and saw a number of excellent plants, a fine specimen of *Dracæna Draco*, some good orchids, many interesting plants in the open air. Afterwards went to the hotel with Dr. Mackay, who dined with the party.

Visited various parts of Dublin in the evening and returned to tea.

Monday, 9th August 1852.

At 6.30 a.m. we walked to the Zoological Gardens at Phoenix Park, and saw the collection of animals, which is by no means extensive. Afterwards drove round the whole of the Phoenix Park, and had a fine view of Wicklow Court from the road near the Hibernian School for Soldiers.

Gathered *Linum angustifolium* and *Feniculum vulgare* in abundance. Breakfasted at 9 at the hotel and then joined the train for Howth at 9.45, accompanied by Professor Allman. Met Dr. Mackay and Mr. Bain at Howth, walked by the rocks to the lighthouse and then to Baldoyle, where Dr. Mackay gave us lunch.

At Howth the plants gathered were :—

*Erodium moschatum*  
 „ *maritimum*  
*Ulex nanus*  
*Eryngium maritimum*  
*Sium nodiflorum*  
*Crithmum maritimum*  
*Inula dysenterica*

*Carlina vulgaris*  
*Statice occidentalis*  
*Erythraea littoralis*  
*Beta maritima*  
*Obione portulacoides*  
*Euphorbia Paralias*

Many of the plants are those found round Edinburgh, such as :—

*Malva sylvestris*  
 „ *rotundifolia*

*Echium vulgare*  
*Salvia Verbenaca*



From Baldoyle we sailed across the tongue of sea to Portmarnock, wading a good part of the way.

Plants :—

Convolvulus Soldanella	Orchis pyramidalis
Euphorbia Paralias (abundant)	

Walked to Malahide, where we arrived about 7 p.m. Dined with Ball and returned by the train at 9.38.

*Tuesday, 10th August 1852.*

Breakfasted with Dr. Mackay at 8 and left at 9 in two cars for Bray, accompanied by Professor Allman, Dr. Mackay, and Mr. Bain. Visited the Dargle, gathering cut-leaved variety of *Polypodium vulgare*, also *Hymenophyllum Wilsoni*. Then proceeded to Powerscourt Waterfall, where I gathered *Lastrea Foeniseeii*, and *Hymenophyllum Wilsoni*. Dr. Mackay provided lunch, which was taken under the trees during a thunderstorm. After the storm the weather cleared, and we returned to Dublin by the beautiful village of Enniskerry and by the Scalp. Near Enniskerry grow :—

Inula dysenterica	Epipactis palustris
Origanum vulgare	Ophrys apifera
Malaxis paludosa	Scirpus Savii

Took tea with Professor Allman. He noticed a peculiar fact as to the proboscis of the fly sticking among the stamens of *Apocynum androsaemifolium*; the flower thus acting as a fly-catcher, the animal dies. The hygroscopicity of *Carlina vulgaris* was also noticed.

*Wednesday, 11th August 1852.*

Breakfasted at 6 and left by train at 7 a.m. for Cork, which was reached about 2.30. Visited the Exhibition at Cork, which is upon the whole creditable. Then went to Queen's College, visited the halls and museum.

Gathered *Ceterach officinarum* on the walls near the college, along with it were :—



Asplenium	Adiantum-nigrum	Scolopendrium	vulgare
„	Trichomanes	Polypodium	vulgare
„	Ruta-muraria		

Visited different parts of Cork. Called on Dr. J. R. Harvey, who had known me in Edinburgh at the Plinian Society, got directions as to my route, also received a copy of the work on the famous Flora of Cork. Mr. Sibbald joined the party this evening.

*Thursday, 12th August 1852.*

Dr. Sutherland and I walked to Sommers Town about 6.30 a.m. to see a famous cork tree. The tree is of large dimensions and of great age. It is in an orchard belonging to a Mr. Jeffreys.

In a loch near Sommers Town saw *Ænanthe fistulosa*, *Bidens cernua*, and *Typha latifolia*. On roadside *Senebiera didyma*. On walls at Cork *Senecio squalidus*. On wall near Sommers Town *Ceterach officinarum*.

Breakfasted at Cork at 9 a.m., and proceeded by steamboat at 10 to Queenstown. Walked along shore to point opposite Monks-town, gathering :—

Sinapis nigra	Dipsacus sylvestris
Foeniculum vulgare (abundant)	Antirrhinum Orlontium
	Euphorbia portlandica

Crossed to Monkstown; behind it there was abundance of *Petasites fragrans*, quite wild in its situation by a roadside. Walked from Monkstown to Passage, where the party had lunch. Then went by rail to Blackrock. From Blackrock crossed to Glanmire Glen, walked along the banks of the Glanmire Burn. On wall near the sea there was abundance of a peculiar *Hypericum* which seems new. On the walls also there was profusion of *Ceterach officinarum*. On the stones by water *Apium graveolens*. From Glanmire walked to Riverstown. Examined banks of water where *Trichomanes* was said to be found. From Riverstown to Cork in the evening.

*Friday, 13th August 1852.*

At 6 a.m. left Cork by railway for Bandon; there we called on Professor Allman, who kindly visited some localities with us.

We gathered :—

Hypericum elodes	Pinguicula lusitanica
Linaria repens (on banks of	Scutellaria galericulata
Bandon Water)	„ minor
Pinguicula grandiflora (in-	
troduced)	

After breakfast (the chief hotel is French's) went by coach to Bantry and then walked partly by the shore to Glengariff, which was reached about 8.30 p.m. The inns were all crowded; we went to Rorke's Hotel but could not be accommodated with beds; slept on the floor of a farm-house near the inn. Picked on the way *Calamintha officinalis*. Glengariff is beautifully situated, and requires a residence of a day or two to see its beauties.

Saturday, 14th August 1852.

At 6 a.m. went to bathe in Bantry Bay, and gathered in the woods :—

Saxifraga umbrosa	Hymenophyllum tun-
Euphorbia hiberna	bridgense

After breakfast the party went in a car to Kenmare, sent baggage by a separate car, passed along a curious road through tunnels, saw *Euphorbia hiberna* and *Saxifraga umbrosa* in abundance.

After reaching Kenmare the party divided in two. Dr. Sutherland, Mr. Cockell, Professor Allman, and Mr. Shaw went in a car, while Messrs. Cowan, Menzies, Sibbald, and Balfour walked.

Numerous interesting plants were seen, especially :—

Saxifraga umbrosa	Lastrea Foeniseii
Hymenophyllum tun-	Osmunda regalis
bridgense	

Visited Turk Waterfall and saw some splendid specimens of ferns. Reached Muckross Hotel about 7 p.m.

*Monday, 16th August 1852.*

This morning was very wet. In spite of it our party went in a two-horse car to the Gap of Dunloe, walked through the Gap, and visited the rocks in it.

Gathered :—

Nuphar luteum	Saxifraga umbrosa
Nymphæa alba	Lobelia Dortmanna
Saxifraga hirsuta	Lastrea Foenicicii
„ serratifolia	

Leaving the Gap, walked to the Upper Lake, where the four-oared boat was waiting for us.

On the way gathered :—

Ilex Aquifolium	Euphorbia hiberna
Drosera longifolia	Rhynchospora alba
Hieracium prenanthoides	

Sailed through the Upper Lake and then through the Long Range, Eagles' Nest, passing Turk Mountain. Passed through the Rapids under the bridge near the Middle Lake. Landed and had lunch. Picked abundance of *Arbutus Unedo* in fruit. One of the prettiest scenes was in the space between the Upper and Middle Lake. A race took place between four of our party in one boat and five of another party in another. Our party, consisting of Balfour, Menzies, Allman, and Sibbald, with Dr. Sutherland as cockswain, beat the other.

Scotch reels and Irish jigs took place in the hall where we had lunch. Returned to the inn about 6 p.m.

*Tuesday, 17th August 1852.*

One of the boatmen having offered to show me a station for *Trichomanes brevisetum* I started at 5 a.m. and went with him to a burn on Turk Mountain beyond the fall. After passing through very wet and entangled ground, thickly beset with thorns, brambles, and hollies, to the no small detriment of clothes and person, we reached the spot. The weather, which had been lowering all morning, now broke up, and by the time I got to the inn there was promise of a fine day. Accordingly at

8.30 we started in a large car to visit M'Gillicuddy's Reeks; we reached the cottages near the foot of the mountain about 12 and commenced our ascent, followed by guides of various kinds, none of whom were employed by us. On reaching a cottage on the ascent, milk and whisky were offered as usual. From the cottage several boys accompanied us, and were not a little astonished when, in place of taking the usual path, we diverged by the side of a rivulet, which we ascended, picked numerous specimens of *Saxifraga umbrosa* and its varieties, as well as *Saxifraga stellaris*. We ascended by peculiar ragged peaks of red sandstone until we reached the most north-easterly summit, where we had a fine view for a few minutes. Mist came on afterwards and we had only temporary glimpses of the scenery. All the party had followed me except Mr. Cockell, who went up by the beaten track. As the mist was now thick and there was some risk that Mr. Cockell might lose himself, I started with Mr. Menzies and a guide for the summit of Carran Tuohill, the highest point of the Reeks, and indeed the highest part in Ireland. The rest of the party descended under the guidance of a boy by a difficult ravine. Before getting to Carran Tuohill we saw Mr. Cockell attempting to come down by very dangerous cliffs, and we had some difficulty in directing him. After going to the top of Carran Tuohill and having a temporary glimpse towards the west and south, we descended by the usual trail to the bottom of the hill. On the way we gathered abundance of:—

<i>Saxifraga hirta</i>	<i>Aira cæspitosa</i>
„ <i>umbrosa</i>	„ „ <i>vivipara</i> and
<i>Solidago Virgaurea</i> (very small)	the alpine form
<i>Armeria maritima</i>	<i>Cystopteris fragilis</i>

On the summit:—

<i>Sedum Rhodiola</i>	<i>Asplenium viride</i>
<i>Hymenophyllum Wilsoni</i>	

On the lower ground:—

<i>Pinguicula lusitanica</i>	
------------------------------	--

Returned to the cottages at the foot of the hill about 6.30 and

had lunch, which was brought in the car. Did not get back to the inn till about 10 p.m. owing to the darkness of the night. From Killarney to Muckcross the rain descended in torrents, and the road was so dark that the driver had to lead the horses.

Wednesday, 18th August 1852.

This morning about 5.30 a.m. with Messrs. Sutherland, Menzies, and Sibbald, I started for Mangerton, and as the hill was rather misty we took a guide with us. On getting near the summit the mist began to clear off, and ultimately the party had a fine view of the whole lake scenery. The view was heightened by the fleecy clouds floating below and the mist clearing off at different points. Visited the Punch Bowl, the Bachelor's Well, and the Horse Glen. Saw abundance of *Saxifraga umbrosa* in various states, and of *Pinguicula grandiflora*. Near the base gathered *Pimpinella majus*, *Verbena officinalis*, *Calamintha officinalis*.

On returning to the inn about 10 had breakfast. I went with Mr. Sprott to visit the Misses Horsley, while the rest of the party went to Ross Castle and Muckcross Demesne. Some of them gathered abundance of *Orobanche*.

The Misses Horsley drove me to some stations for *Trichomanes*, one of which was that shown to me by the boatman. Along with it was *Saxifraga Geum*. The stations were on Turk Mountain. Almost all the streams coming from that mountain have *Trichomanes* on their banks. The fern grows in dark, shady places under the drip of water. The stations are difficult of access owing to the prevalence of brambles, and both Mr. Sprott and I suffered in the cause. It was astonishing, however, to see the enthusiasm with which Miss Horsley mastered all difficulties, and, in spite of wet, streams, brambles, hollies, and thorns, pointed out about five stations for the fern. The Misses Horsley are great collectors of ferns, and are anxious to get some of the rarer Scottish species, which were of course promised by me. After leaving the mountain we proceeded on the car to Ross Castle, where there is a fine view, then sailed across to Ross Island and saw great profusion of *Lastrea Thelypteris*, barren and fertile fronds.

From Ross Island sailed to Innisfallen and saw the remains of the old monastery, as well as several spots famous in story. The

herbage of the island is very nutritious, and it is said that sheep fatten very rapidly; they are only kept on it for six weeks at a time. After walking round the island we sailed for O'Sullivan's Waterfall, a very pretty one in a deep rocky chasm surrounded by ferns of all kinds. *Lastrea Foeniseeii* was here, as in all other parts of Killarney, abundant. *Hymenophyllum tunbridgense* was also very luxuriant on the rocks. Found the character of the dark rhizome of *Lastrea Foeniseeii* on making a longitudinal section to hold good, thus this plant seems to be distinguished from *L. dilatata*. From the waterfall sailed by Glenna to the cottages of Lady Kenmare, which we visited, then sailed on to the point where the waters meet, near Dinish Cottage. Entered the Middle Lake, visited the Wine Cellars or hollowed caves under the limestone rocks, landed at Jack-a-Boys Bay, so called from the appearance of a rock like a boy in the bay. Near the bay, on marshy ground leading to the Muckcross Offices, picked:—

Athyrium Filix-fœmina  
 „ irriguum  
 Scolopendrium vulgare

| Lastrea Thelypteris  
 Osmunda regalis

The last mentioned is the common fern here, and is particularly beautiful near the Meeting of the Waters below the Rapids and the Middle Lake.

Near Jack-a-Boys Bay saw:—

Euonymus europæus

| Rhamnus Frangula

Landed at Mr. Herbert's Pier and walked by the Muckcross Manor and its pretty garden to the Abbey. Muckcross Manor is prettily situated on a small eminence commanding a fine view of the Lower and Middle Lakes. The Abbey is very beautiful and tolerably perfect. In it there is an old yew growing. Reached the hotel about 6.30 p.m. to dinner, and was occupied in arranging plants till near 12 p.m.

*Thursday, 19th August 1852.*

After settling Muckcross Hotel bill, which was tolerably moderate, we started at 6.30 a.m. for Killarney. Took our seats on the coach to Tralee. Mr. Sprött and Mr. Cockell accompanied us to that place. Mr. Fraser was left at Muckcross to go

to Dublin by Mallow. The coach was crowded with passengers and luggage. We had secured tickets for 11s. 6d. each, which took us to Tralee, Dingle, Tarbert and Limerick. Mr. Gallacher kindly granted us this favour. Got to Tralee to breakfast, and, leaving most of our heavy baggage there, proceeded by a car to Dingle by Connor Hill. The road over the hill is a remarkable one; it rises to a great height, not less than 1500 feet above level of sea, and crosses the summit of the mountains. We had to walk a great part of the way. Gathered numerous specimens of *Saxifraga umbrosa*, *S. hirsuta*, *S. stellaris*.

Reached Dingle about 4 p.m. and bathed in the bay. Were comfortably accommodated at Petrie's Hotel. Mr. P. is a Scotchman and was glad to welcome his fellow-countrymen. Charges were moderate.

*Friday, 20th August 1852.*

After bathing and breakfast left in two cars for the foot of Brandon Mountain. Reached some miserable cottages at the foot of the hill, where we procured a guide, as the mountain-top was covered with mist. The mountain is easily ascended in an hour and a half. We had a good view on the way up, seeing Blasquet Islands, Skellig Rocks, Valentia, Kerry Head, the Atlantic, &c. On the top, however, mist prevailed, and we had no view. We gathered abundance of:—

Ranunculus acris (alpine form)	Saxifraga umbrosa
Saxifraga affinis	Sedum Rhodiola
„ hirta	Cystopteris fragilis
	Polystichum Lonchitis

Waited in vain for a clear view. Descended and drove to the rocks near Ballinahow, where there is a lead mine. Rocks fine. Peculiar rocky bay, where the boats of the fishermen are kept. Proceeded along the shore of Smerwick harbour, where the ship "Ben Nevis" was wrecked last Christmas. Saw the tower of Ballidavid, old castle called Galerus, and an ancient oratory said to be the most perfect in Ireland; the stones were placed so as to form a gothic arch, but it was not built on the principle of the arch. Near Smerwick harbour gathered abundance of *Althæa officinalis*. After lunch started by our car about 7 p.m. for



Tralee, going by the old road which avoids Connor Hill. It was so dark that we did not pick *Sibthorpia*, which grows along the road. Reached Tralee about 11 p.m. after a long and tiresome drive. The road winds in a remarkable way, and is by no means safe in a dark night; it goes along the edges of many very steep banks, and the turns are often very rapid. The whole county of Kerry abounds in *Cotyledon*.

*Saturday, 21st August 1852.*

Left Tralee at 11 a.m., partly by coach and partly by car. Passed through a bleak, peaty, and uncultivated country to Listowel. Near Listowel there is a fine property of the Knight of Kerry (Fitzgerald). There is also one belonging to a Mr. Palmer called Banmore, which might be made very productive and beautiful.

The fine river of the Fale passes Listowel, and we crossed it by a good bridge. At Listowel the car party got a new car and proceeded to Tarbert, where we had lunch, thence coach and car. Went to the moveable pier which conveys the passengers to a moored pier, whence they embark on board the steamers on the Shannon. The Shannon is a noble expanse of water below Limerick, but its banks are very tame and uninteresting. It does not exhibit the beautiful scenery of the Clyde.

We reached Limerick about 8 p.m. and took up our quarters in Cruise's Hotel, Grey Street.

*Monday, 23rd August 1852.*

At 6 a.m. party of five went by coach to Killaloe, distant 12 Irish miles from Limerick. Mr. Sibbald left the party here and returned home. Our drive was through an undulated country, and the roads were often steep and the turns sharp so that we were nearly overturned by our bad driver. Some of the baggage was shaken off, while we escaped. Another car which started at the same time with us and which was driven equally badly broke down at Ballina Lodge, so that we had to wait some time for the passengers and baggage at Killaloe. Went on board the steamboat on the Shannon and sailed about 9. The scenery on this upper part of the Shannon, and especially of Lough Derg, is



interesting, and much less tame than that of the lower Shannon. We enjoyed our sail much. On board I met an old classfellow, Archibald Cockburn, from 60 Mark Lane, London; there was also Dr. Forbes and his brother. At Shannon harbour canal crosses to Ballinasloe. Shannon Bridge is a well fortified place; numerous troops are landed there. Near it are curious ruins of round towers and churches. One of the towers is very perfect.

Reached Athlone about 5 p.m. Here Mr. Sutherland and Mr. M'Allum left for Dublin by train at 6.3 p.m. Mr. Cowan, Mr. Menzies, and self dined at Haire's Hotel, along with Dr. Forbes and his brother (Rourke's Hotel seems to be the best and cleanest). Visited fortifications of Athlone before dinner. There is a beautiful railway bridge here.

Left Athlone by train at 10.22 p.m. for Galway and took up our quarters at the Railway Hotel at 12.30. This hotel is on a splendid scale and has just been opened. During the cattle show at Galway on the 20th it was opened and received the Lord Lieutenant and the visitors.

*Tuesday, 24th August 1852.*

This morning visited part of Galway. Went to Queen's College and heard that Dr. Melville was gone on a yacht to the island of Aran, and that another boat was about to follow him containing Mr. Bilston, the Curator. We accordingly, with Mr. Bilston's permission, embarked on board this boat with certain part of our baggage and sailed down Galway Bay. The wind was rather adverse, but by tacking we got down about 20 or 25 miles; after this the wind lulled and we were unable to make Aran, accordingly we proceeded, partly by sailing and partly by rowing, to Cortello Bay, where we arrived about 8 p.m. and took up our quarters in a small hut, where we got potatoes and milk, as well as some tea and bread, which the boatman provided for us.

We contrived to pass the night tolerably well on beds provided for us, but we did not take off our clothes. The cottagers were very attentive and did all in their power to promote our comfort.

Wednesday, 25th August 1852.

As the wind was favourable and the day fine we started at 5 a.m. and proceeded to the boat, gathering on the way plants of *Dabeocia polifolia*. We sailed about 6. We hailed a fishing boat and got some crabs and lobsters, some of which we boiled on board. We also fished for mackerel and got about a dozen excellent fish, which served us for breakfast and dinner on the island. Landed at Kilronan, in the larger island of Aran, about 9 and went to the house of the boatman, Michael Gill, where we had breakfast. Afterwards proceeded with a guide called Pat Mullen to visit the island. It is a remarkable limestone island, literally paved with stone, with scanty vegetation here and there. Crevices between the rocks in which many good plants, especially ferns, grow. Walked towards the lighthouse and then went to a sandy bay, where we bathed in the Atlantic, crossed the island to visit splendid limestone cliffs, about 400 feet high, and the old fortification of Dunaengus. Limestone hollowed out in a remarkable way into caverns and deep pools. Visited the Seven Churches, the ruins of which are seen at a part about 6 miles from Kilronan. We had a fine view of County Clare, Galway Bay, Connemara, &c.

Plants gathered were:—

Cerastium arvense	Senecio Jacobæa (without a ray)
Arenaria verna	Carlina vulgaris
Malva sylvestris	Lycopus europæus
Geranium sanguineum	Marrubium vulgare
Ulex nanus	Plantago Coronopus (hairy var.)
Poterium Sanguisorba	Neottia spiralis (abundant on turf and sandy soil)
Saxifraga affinis? (in abundance on all the rocks)	Sesleria cœrulea
Smyrnium Olusatrum	Juniperus nana
Haloscias scoticum	Ceterach officinarum
Torilis Anthriscus	
„ nodosa	
Asperula cynanchica	
Adiantum Capillus-Veneris	
Asplenium marinum	
„ Trichomanes	} All these ferns were in profusion in the limestone crevices.
„ Ruta-muraria	
Scolopendrium vulgare	
Sambucus Ebulus	

Ergot of rye was also abundant.

Returned about 7 p.m. and partook of hot dinner consisting of mackerel, bream, and rock fish.

Saw numerous patients, for whom I prescribed. Among the rest were the brother-in-law of our landlord, a person named Martin Hernan, and another, Michael Haharty.

Visited a cottage near the Seven Churches, where we had milk and potheen.

*Thursday, 26th August 1852.*

This morning was very fine, and we rose at 5 a.m., but as there was not a breath of wind we had to delay our journey by boat. After breakfast a breeze began to spring up, and we started about 8 a.m. with a fair wind for Roundstone, which we reached in  $3\frac{1}{2}$  hours. The distance is about 20 miles. The breeze sprang up very quickly, and the Atlantic waves were rather high to be comfortable for bad sailors. The strength of the breeze kept the boat tolerably steady. On reaching Roundstone we proceeded to the inn kept by Mr. Macaulay, the postmaster, the father of Wm. McCall, who died of cholera in 1849, and who did so much to promote our knowledge of Irish seaweeds; his name is constantly mentioned by Harvey in his *Phycologia*. The father has taken the name of Macaulay, which he says is his correct family name. He is a Scotchman by birth, and was delighted to see Mr. Menzies in his kilt. The old man was constantly speaking of the merits of his son, to whose memory he has erected a monument in the churchyard of the Presbyterian Chapel. He took us to see it.

We then walked over the gap in the hill behind Roundstone and gathered :—

*Nymphaea alba*

*Erica mediterranea*

*Eriocaulon septangulare*

After lunch we went by car to Clifden, which we reached about 6.30 p.m. Mr. Macaulay accompanied us in the car about a mile to show us a station for *Erica Mackaii*. On the road to Clifden we passed abundance of this heath, and at Craggiemore, in marshy ground on the left-hand side of the road, and in hollow ground, we gathered *Erica ciliaris*.

We took up our quarters in Hart's Hotel, which does not, however, appear to be the best in Clifden. Kerr's Hotel seems to be the cleanest and most comfortable.

We were occupied all evening putting our plants in paper.

*Friday, 27th August 1852.*

After breakfast left by a private car for Kylemore, where we gathered abundance of *Daboecia polifolia*, both pink and white. The scenery here reminded us much of Scotland. Kylemore Lough is like one of those in our Highlands. The hills around are worthy of examination. We then proceeded to Leenane, where there is a high hill deserving notice. Near Leenane we picked *Carduus pratensis*.

We then walked up the hill on the way to Maam, and after joining our car we reached the hotel about 2.30 p.m. After bathing in the river, and lunching at Mr. Rourke's inn, we proceeded by the mail car to the point where we join the car for Clifden, and we reached Galway about 8.30 p.m., passing through Oughterard. Mr. Rourke at Maam is an amusing man, and occupied our attention during lunch by tales of Irish and other botanists who had visited his hotel.

We took up our quarters in the Railway Hotel, Galway. Met there Lord Oranmore, who seemed to be much interested in our account of our trip.

*Saturday, 28th August 1852.*

This day was the last botanising day of the party. After breakfast we visited Queen's College, and then proceeded to the shore of Lough Corrib. Our time was very limited, as we had to start for Dublin in the afternoon. Hence we were not able to reach the station for *Rhynchospora fusca* and *Eriocaulon septangulare*.

We gathered :—

*Nasturtium palustre*  
*Bidens cernua*  
„ *tripartita*

*Nepeta Cataria*  
*Alisma ranunculoides*  
*Ceterach officinarum*

along with numerous other ferns in the limestone rocks. A canal is being made, and communication between Lough Corrib and Galway is being fully opened up for vessels.

At 4 p.m. we left by train for Dublin and arrived at Anderson's Hotel at 10.30 p.m. Here the botanical trip ended; the parties who remained to the last being—J. H. Balfour, Alexander Cowan, William John Menzies.

---

EXCURSIONS IN 1853.

**Granton, Cramond, Craigmaddock.**

*Saturday, 14th May 1853.*

Party of about 100 met at Granton at 11 and walked by shore to Cramond, up the Almond. Returned by Craigmaddock, and reached Edinburgh about 5.30 p.m. Return ticket 1s.

Ordinary sea-side plants, gathered :—

Cochlearia officinalis	Symphytum officinale (not in flower)
Acer platanoides (plantations)	Linaria Cymbalaria (Ravelston)
Vicia sativa	Euphorbia Lathyris (banks of Almond)
„ lathyroides (Cramond Island)	Convallaria multiflora (banks of Almond)
Potentilla verna	Equisetum limosum
Armeria maritima	
Primula vulgaris, var.	

---

**Gorebridge, Arncliffe, Dalhousie.**

*Saturday, 21st May 1853.*

Party of 128 met at North British Railway Station at 11 a.m. and proceeded to Gorebridge; walked to Arncliffe, and then by the banks of the water to Dalhousie and met train there at 7.31 p.m. Return ticket, 1s.

Plants gathered :—

Ranunculus auricomus	Doronicum plantagineum
„ Ficaria	Pulmonaria officinalis
Aconitum Napellus	Lathræa Squamaria
Stellaria nemorum	Neottia Nidus-avis (old spikes)
Prunus Avium	Arum maculatum
Chrysosplenium alternifolium	Scolopendrium vulgare
Adoxa Moschatellina	Equisetum Telmateia
Asperula taurina	Morchella esculenta

Specimen of stem of mountain ash, with twining honeysuckle much compressed.

### Dysart, Ravenscraig Castle, Wemyss.

*Saturday, 28th May 1853.*

Party of 126 met at the Northern Railway Station at 9.45 a.m. and proceeded to Dysart. Walked to Ravenscraig Castle, and gathered :—

Pyrus Malus		Salvia Verbenaca
Smyrnium Olusatrum		

Many sea-weeds along shore.

Entered woods at Dysart and walked through them.

Plants gathered :—

Aconitum Napellus		Doronicum plantagineum
Berberis vulgaris		Symphytum tuberosum
Geum agrimonioides (natural-		Lamium maculatum
ised in woods)		Convallaria majalis
Saxifraga Geum		Ruscus aculeatus
„ umbrosa		Ornithogalum umbellatum
„ granulata		Lilium Martagon
Viburnum Lantana		

Saw fine Rhododendrons, particularly a new species, *R. salignum*, from Sikkim. Also saw *Fuchsia syringæflora*.

From Dysart walked by shore to Western and Eastern Wemyss amidst rain, which continued from 2.30 p.m. till evening.

Near Wemyss Castle, gathered :—

Lepidium latifolium		Humulus Lupulus
---------------------	--	-----------------

In caves at Wemyss :—

Asplenium marinum		
-------------------	--	--

### North Queensferry, Inverkeithing, Donibristle, Aberdour, Burntisland.

*Saturday, 4th June 1853.*

Party of between 80 and 90 proceeded to Granton, went by steamboat to Queensferry—fares 4d. each, besides 2d. at Granton Pier. Landed at Queensferry for 3d. each.

Examined the Ferry hills on the eastern side.

Picked :—

<i>Thlaspi arvense</i>		<i>Spiræa Filipendula</i> (not in flower)
<i>Vicia lutea</i>		

Near Inverkeithing :—

<i>Sagina maritima</i>		<i>Sedum villosum</i>
<i>Geranium sanguineum</i>		<i>Anthriscus vulgaris</i>

From Inverkeithing walked to St. David's and gathered :—

<i>Diplotaxis tenuifolia</i>		<i>Leonurus Cardiacæ</i>
<i>Reseda lutea</i>		

Entered Donibristle Woods, and were accompanied to the garden and grounds by Mr. Gavin and the under-keeper.

Walked to Aberdour, picking :—

<i>Viola hirta</i> (in fruit)		<i>Atropa Belladonna</i> (not in flower)
<i>Medicago maculata</i>		
<i>Dipsacus sylvestris</i>		<i>Hyoscyamus niger</i>
<i>Cynoglossum officinale</i>		<i>Listera ovata</i> (not expanded)
		<i>Allium Scorodoprasum</i>

Passed through Aberdour woods to Burntisland.

At Burntisland, gathered :—

<i>Salvia Verbenaca</i>		<i>Sclerochloa maritima</i>
<i>Parietaria officinalis</i>		„ <i>loliacea</i>
<i>Carex distans</i>		

Returned by boat at 6.15.

**Midcalder, Meadowbank, Dalmahoy, Ravelrig,  
Currie, Woodhall.**

*Saturday, 11th June 1853.*

Morning very unpromising. A party of about 75 met at the Caledonian Railway Station at 7.45 a.m. and proceeded to Midcalder, thence walked to Meadowbank, Western Dalmahoy Hill, Ravelrig, Eastern Dalmahoy Hill, Currie, and Woodhall, and returned about 6 p.m. Return tickets 8d. The evening was so bad and the party so thoroughly drenched that the greater part walked home.



## Plants gathered :—

Meconopsis cambrica	Drosera rotundifolia
Hesperis matronalis	Pyrola minor (in bud)
Viola palustris	Trientalis europæa
„ canina	Myosotis palustris
„ flavicornis	Pinguicula vulgaris
„ sylvatica	Corallorrhiza innata
„ lutea	Listera cordata
Geranium phæum	Arum maculatum
„ columbinum	Carex filiformis

## Cockburnspath, Dunglass, Pease Dene.

- Saturday, 18th June 1853.

Party of 84 met at the North British Railway Station at 8 a.m., and proceeded to Cockburnspath. Return tickets 2s. each. From Cockburnspath, after visiting the factor, Mr. Smith, proceeded to Dunglass woods and there gathered :—

Eranthis hyemalis	Ribes alpinum
Berberis vulgaris	Viburnum Lantana
Cardamine amara	Ligustrum vulgare
„ sylvatica	Anchusa sempervirens
Alliaria officinalis	Veronica montana
Hypericum calycinum	Lamium Galeobdolon
Geranium phæum	Neottia Nidus-avis
Chrysosplenium oppositifolium	Carex pendula
„ alternifolium	Equisetum Telmateia

Proceeded towards the shore, picking :—

Malva sylvestris	Artemisia Absinthium
Potentilla reptans	

Walked along the shore to the opening of Pease Dene and gathered :—

Glaucium luteum	Carex vulpina
Haloscias scoticum	Psamma arenaria
Hippophaë rhamnoides	Triticum junceum
Carex arenaria	Equisetum Telmateia

Walked up Pease Dene to the bridge, picking :—

Geranium sylvaticum	Polystichum angulare
Digitalis purpurea	

Returned by train, passing Cockburnspath at 6 p.m.



**Kincardine, Tulliallan, Culross, Torryburn, Charleston.***Saturday, 25th June 1853.*

Party of about 80 met at Granton Pier at 7 a.m. and proceeded by the Stirling boat to Kincardine. Fares, going and coming, 1s. Breakfasted at Dewar's Inn, then walked along the embankment, where good plants were gathered. Mr. Robert Carr picked *Hordeum maritimum*; this plant is in great quantity on the embankment. Mr. John Cunningham gathered *Hordeum pratense*, which is less abundant. *Festuca arundinacea* was very luxuriant, and a number of common grasses.

After leaving the embankment proceeded to station for *Osmunda regalis*, which was gathered partially in fruit.

On the shore there was abundance of *Scirpus maritimus* and *Aster Tripolium* (not in flower).

In woods at Tulliallan, Dr. James Dewar gathered *Corallorrhiza innata*; did not find *Paris quadrifolia*. Also picked *Pyrola minor*, *Aquilegia vulgaris*, *Rumex sanguineus*.

On the shore, between Kincardine and Culross, gathered :—

Ranunculus aquatilis	Aster Tripolium (with fasciated stem)
„ sceleratus (with fasciated stem)	Matricaria Parthenium
Lepigonum marinum	Hypochaeris glabra (Mr. Tate)
Melilotus officinalis	Vinca major
Rosa tomentosa	Lithospermum officinale
„ canina	Echium vulgare (fasciated stem)
Myriophyllum spicatum	Solanum Dulcamara
Hydrocotyle vulgaris	Iris Pseudacorus
Apium graveolens	Sparganium ramosum
Helosciadium inundatum	Glyceria aquatica
Œnanthe crocata	Carex intermedia
Centranthus ruber	„ paniculata

In the woods at Torryburn :—

Epipactis latifolia	Holcus mollis
Orchids (various)	Ophioglossum vulgatum

At Torryburn, kindly entertained by Dr. Dewar.

Between Torryburn and Charleston :—

Papaver Rhœas	Æthusa Cynapium
„ dubium	Valerianella dentata
„ Argemone	Dipsacus sylvestris
Sinapis alba	Hieracium vulgatum
Viola palustris	Erythræa Centaurium
Saponaria officinalis	Atropa Belladonna
Lychnis Agrostemma	Verbascum Thapsus
Malva sylvestris	Atriplex littoralis
„ rotundifolia	„ Babingtonii
Geranium pratense	Habenaria bifolia
Melilotus leucantha (vulgaris)	„ chlorantha
Potentilla argentea (near Charleston)	Sclerochloa maritima
	„ distans

Returned by boat from Charleston about 7 p.m. and reached Granton about 8.

### Lanark, Cora Linn, Bonnington, Cartland Crag.

*Saturday, 2nd July 1853.*

Party of 140 met at the Caledonian Railway Station at 8 a.m. and proceeded to Lanark. Return tickets 2s.; pupils also allowed to return on Monday.

On reaching the station walked to Lanark, gathering on the way :—

Aconitum Napellus	Carex aquatilis ?
Epilobium angustifolium	Equisetum palustre
Carum Carui	„ limosum
Rumex aquaticus	

Got five guides at the inn and went to Cora Linn and Bonnington.

Plants gathered were :—

Trollius europæus	Carex disticha
Aquilegia vulgaris	„ paniculata
Vicia Orobus	„ remota
Orchis latifolia	„ glauca
„ maculata	„ sylvatica
Carex dioica	„ binervis
„ ulicaris	„ fulva

<i>Carex flava</i>	<i>Polypodium Phegopteris</i>
„ <i>ampullacea</i>	<i>Equisetum arvense</i>
<i>Polystichum aculeatum</i>	„ <i>umbrosum</i>
<i>Polypodium Dryopteris</i>	„ <i>sylvaticum</i>

Near Cora Linn :—

<i>Aquilegia vulgaris</i>	<i>Circæa alpina</i>
<i>Rubus saxatilis</i>	<i>Asplenium viride</i>
<i>Saxifraga oppositifolia</i>	

At Bonnington :—

<i>Spiræa salicifolia</i>	<i>Poa nemoralis</i> (and var. like
<i>Humulus Lupulus</i>	<i>Balfourii</i> )

On the road from Lanark to station, returning :—

<i>Antennaria dioica</i>	<i>Gymnadenia conopsea</i>
<i>Mimulus luteus</i>	<i>Habenaria chlorantha</i>

Some of the party picked at Stonebyres :—

<i>Solidago Virgaurea</i>	<i>Milium effusum</i>
---------------------------	-----------------------

At Cartland Crag :—

<i>Jasione montana</i>	
------------------------	--

Returned by train at 3.45 and reached Edinburgh before 6 p.m.

North Berwick, Canty Bay, Bass, Tantallon, Dirleton.

*Saturday, 9th July 1853.*

Party of 80 or 85 met at the North British Railway Station and proceeded by the 8.10 a.m. train to North Berwick. Return tickets 2s. each.

On reaching North Berwick, walked by the shore to Canty Bay, gathering :—

<i>Vicia sylvatica</i>	<i>Habenaria viridis</i>
<i>Eryngium maritimum</i>	<i>Alopecurus agrestis</i> (in abundance near the station)
<i>Haloscias scoticum</i>	
<i>Scabiosa Columbaria</i>	

Visited the Bass in four boats provided by Adams (6d. each person).

Picked :—

Lavatera arborea  
Hyoscyamus niger

Beta maritima  
Narcissus biflorus

On returning some visited Tantallon and got :—

Lepidium latifolium

Silybum Marianum

Others went to Berwick Law, others walked by road to North Berwick, and picked :—

Silene noctiflora  
Convolvulus sepium (not in  
flower)

Hippophaë rhamnoides

Abundance of *Petasites fragrans* in a wood close to North Berwick. Afterwards went to the Common and walked by it to Dirleton.

Plants gathered were :—

Ayssum calycinum  
Reseda lutea  
Silene conica  
Galium Mollugo  
Thrinchia hirta

Anagallis tenella  
Cynoglossum officinale  
Calamintha Acinos  
Equisetum variegatum

Between Dirleton and railway station :—

Fumaria parviflora

And near the station :—

Iberis amara

Anthemis Cotula

Returned by train, reaching Edinburgh at 7.45 p.m.

### Overtown, Wishaw.

Saturday, 16th July 1853.

Party of 24 met at Caledonian Railway Station—day very wet—and proceeded to Overtown. Return ticket from Wishaw 2s. 6d.

On reaching Overtown the rain was falling very heavily, nevertheless the party visited the banks of Garrion Burn, which was much swollen. A number of ordinary plants were gathered. Ferns and grasses large and abundant.

From the Garrion Burn went to banks of Clyde.

Plants gathered were :—

Hypericum perforatum	Epilobium angustifolium
„ hirsutum	Circaea lutetiana
Tilia grandifolia	„ alpina
„ parvifolia	Campanula latifolia
Geranium sylvaticum	Scirpus sylvaticus
„ pratense	

Followed banks of Clyde below Garrion Bridge, gathering :—

Origanum vulgare	Equisetum umbrosum (Mr.
Calamintha Clinopodium	Ross)

Went to Wemyss Hill Farm and were hospitably entertained by Mr. Paterson, the farmer.

Returned by train, reaching Edinburgh at 5.30 p.m.

### Cumberland Lakes.

*Thursday, 21st July 1853.*

Party consisting of J. H. Balfour, Mohammed Badre, Thomas Barclay, Sheriff-Clerk of Fife, Claudius W. Bell, George C. Bell, George Birdwood, W. Weddel Bizzett, Patrick Blair, Frederick Cock, Philip Cockell, Francis Collins, Charles W. Cowan, Hugh Cowan, John Cowan, Emile W. Dubuc, William P. Falla, Robert Farquharson, Patrick Graham, M. A. Katib, Harold Hanson, Thomas Hardie, Wm. Henderson, T. H. James, C. Webster Kerr, James Landall, G. S. Lawson, George Lindsay, Frederick E. Martyn, John Matthews, Wm. John Menzies, David Milroy, William D. Murison, Albert C. Peggram, D. Pisani, Robert Pringle, William O. Roberts, David Ross, M. A. Soubki, Samuel Smith, James Tod, jun., J. B. Tuke, Walter Williamson, W. Blackburn Wood, James Young, left Edinburgh on Thursday, 21st July, by train at 12 noon, having received return tickets for Windermere for 15s. each. The party proceeded to Carlisle, which they reached about 4.18 p.m., then they went by train at 4.33 to Kendal Junction, where they met Mr. Wakefield, who regretted that his brother George could not accompany the party. At Kendal Ormskirk gingerbread had an extensive

sale among the party. On reaching Kendal there was a detention of more than half an hour, during which some of the party visited the town. Afterwards the party went to the Windermere station, where a cart, sent from Ambleside, was ready for the luggage. Some of the party walked, others rode, and others went by boat to Ambleside.

On the way there was gathered abundance of:—

Sanguisorba officinalis	Stachys Betonica
Lactuca muralis	

Reached Donaldson's Salutation Hotel about 10 p.m. Excellent arrangements made for the tea-dinner and for beds, so that all were well accommodated.

Friday, 22nd July 1853.

Some of the party were up this morning at 4.30 a.m. and visited Stock Gill. Fine waterfall.

The plants picked were:—

Impatiens Noli-me-tangere	Scolopendrium vulgare
Campanula latifolia	Polystichum aculeatum
Festuca sylvatica	Polypodium Dryopteris
Hymenophyllum Wilsoni	„ Phegopteris

The morning was misty and wet, the atmosphere being close and warm. After breakfast and paying the bill, amounting to 5s. 6d. each, 39 of the party started for Rydal. Six remained—Graham, Badre, Tuke, Roberts, Lawson, and Landall; they took boats, and resolved to come to Patterdale by coach.

The walking party proceeded to Rydal, picking on the way:—

Meconopsis cambrica	Sedum album
Tilia parvifolia	„ reflexum
Sedum Telephium	Sempervivum tectorum

Visited Rydal Waterfall and Rydal Mount, and gathered:—

Carpinus Betulus	Lastrea Oreopteris
Quercus sessiliflora	

and a variety of *Lastrea Filix-mas* with singularly contorted fronds.

In Rydal Lake:—

Nuphar luteum	Lobelia Dortmanna
Nymphaea alba	Potamogeton natans
Myriophyllum spicatum	„ oblongus

On banks of Rydal Lake :—

Berberis vulgaris	Rhynchospora alba
Hypericum Androsaemum	Carex dioica
Lythrum Salicaria	„ vesicaria

On the roadside :—

Staphylea pinnata	Anagallis tenella
Parnassia palustris	Narthecium ossifragum
Drosera rotundifolia	

On the hills near Rydal :—

Sedum anglicum	Allosorus crispus (the fern of the district)
Jasione montana	

Walked to Grasmere ; some visited Wordsworth's tomb. Near Dunmail Raise *Saxifraga umbrosa* was seen, and near by the burn *Solanum Dulcamara*. Reached Wythburn a little after 12 to lunch. Engaged a guide for 5s. to go to Helvellyn, as the hill was covered with mist.

On the way up the hill the following plants were gathered :—

Alchemilla alpina	Lycopodium Selago
Saxifraga stellaris	„ clavatum
„ aizoides	„ alpinum
„ hypnoides	„ selaginoides
Oxyria reniformis	

When a considerable height had been gained the party entered a thick cloud. It was cold and wet. When they reached the summit the cold was very intense.

The party prepared to descend, and had proceeded a short way down Swirrel Edge, when the mist suddenly began to clear away ; nearly all of them again ascended to the summit. The mist gradually rose like a curtain, displaying hill after hill, until the whole became beautifully clear, with scarcely a cloud in the sky. The view was splendid, and for at least an hour the party enjoyed it. Scawfell, Bowfell, Borrowdale, Honister Crag, Skiddaw, Saddleback, Windermere, Coniston, Esthwaite, Morecambe Bay and its islands, the Solway, the hills of Northumberland, &c., were distinctly clear. It was truly splendid, and the guide said that he had very rarely seen such a view from Helvellyn.

The party next examined the rocks above the Red Tarn.

The following were some of the plants gathered :—

Anemone nemorosa	Hieracium alpinum
Cochlearia officinalis	„ Lawsoni (Soubki)
Viola sylvatica	Vaccinium Vitis-Idæa
Cerastium alpinum	Armeria maritima
Malachium aquaticum	Veronica serpyllifolia
Alsine verna (Bizzet)	„ humifusa
Rubus saxatilis	Polygonum viviparum
Alchemilla alpina	Oxyria reniformis
Saxifraga oppositifolia	Salix herbacea
„ nivalis (C. Cowan)	Juniperus nana
„ stellaris	Juncus triglumis
„ aizoides	Carex rigida (on the summit)
„ hypnoides	Poa alpina
Sedum Rhodiola	Festuca ovina vivipara
Solidago Virgaurea	Polytrichum alpinum
Saussurea alpina	Splachnum mnioides

Descended below Striding Edge in a fine evening to Patterdale, and were comfortably entertained at Guelder's Hotel, where everything was ready for us in the way of tea-dinner and beds. Sir Walter and Lady Trevelyan were staying at the hotel. Visited the son of a Mr. Mortimer from Manchester, who was in delicate health, and prescribed for him.

The six who remained at Ambleside, finding that the day cleared up, had walked by Rydal and Grasmere and came over the lower part of Helvellyn, reaching Patterdale late in the evening. Mr. Soubki remained behind the party on Helvellyn and lost his way, but reached the inn late in the evening.

The evening was remarkably fine, and it was with difficulty that the party was induced to retire to rest.

Some continued boating and walking till 12 at night, others put their plants into paper.

*Saturday, 23rd July 1853.*

Breakfasted at Guelder's Inn at 7 a.m., and after paying the bill, 6s. 2d. each, started for the shores of Ulleswater. Many took to boats, others to the coach, only 19 walked by Gowbarrow Park to Pooley Bridge and Penrith.

On the shores of Ulleswater the following plants were gathered :—



Thalictrum majus	Galium Mollugo (near Pooley Bridge)
Aquilegia vulgaris	Senecio aquaticus
Papaver somniferum	Serratula tinctoria (near Pooley Bridge)
Hypericum perforatum	Hieracium boreale
„ maculatum	Lactuca muralis
„ humifusum	Jasione montana
„ hirsutum	Ligustrum vulgare
Geranium nodosum (near a cottage)	Linaria vulgaris
„ phæum	Mentha rotundifolia
Genista tinctoria	Calamintha Clinopodium
Prunus Padus	Stachys Betonica
Spiræa salicifolia	Quercus pedunculata
Sanguisorba officinalis	„ sessiliflora (at Gowbarrow Park)
Circæa lutetiana	
Galium boreale	

The best plants were gathered between Gowbarrow Park and Pooley Bridge, within two miles from the latter place. In Ulleswater *Nymphæa alba* occurs. *Plantago media* was gathered abundantly after passing Pooley Bridge.

Between Pooley Bridge and Penrith:—

Malva moschata	Galium Mollugo
Potentilla reptans	Plantago media

Walked by Brougham Hall to the Round Table, and reached Penrith about 3 p.m.

At Penrith Castle *Diplotaxis tenuifolia* was picked.

Left Penrith by express train at 3.20, and reached Edinburgh at 7.15 p.m. Mr. Barclay, Mr. Menzies, and C. Cowan remained at Carlisle; Claud Bell at Carstairs. The weather during this trip was upon the whole good, and all seemed to enjoy the excursion.

### Clova.

Thursday, 4th August 1853.

A party consisting of J. H. Balfour, Thomas Barclay, George Bayley, Alexander Cowan, Charles W. Cowan, E. W. Cropper, John G. Cunningham, James Gilchrist, William M. Ogilvie, Charles Jenner, M. A. Katib, G. Lawson, Mostapha Mostapha,

David Ross, M. A. Soubki, William B. Wood, Peter Young, left Edinburgh on Thursday, 4th August, at 6.30 a.m. by the Northern Railway, having taken second-class return tickets for Glamis at the fare of 9s. 2d. Proceeded by Perth to Glamis, and reached the latter place about 11.30 a.m., where Findlay's cart was waiting for the baggage. Rev. W. Balfour of Holyrood and Master Harry White met the party there and walked with them to Kirriemuir, where they had lunch in Robb's Commercial Inn. Walked thence to Cortachy and Clova, reaching the latter about 8 p.m.

On the way picked the following plants :—

Woods near Kirriemuir :—

<i>Pyrola minor</i>		<i>Listera cordata</i>
<i>Trientalis europæa</i>		

Roadside, Clova :—

<i>Alchemilla alpina</i>		<i>Pyrola media</i>
<i>Saxifraga aizoides</i>		<i>Plantago maritima</i>
<i>Meum athamanticum</i>		<i>Polygonum viviparum</i>

Were all accommodated in the inn and hall. Eleven slept in the hay in the hall, the rest at the inn.

*Friday, 5th August 1853.*

Mr. Bayley went to fish in the Esk, while the rest of the party, after bathing and breakfasting, crossed the Esk and walked past Ogilvy's House towards Glen Dole.

On the way gathered :—

<i>Meum athamanticum</i>		<i>Tofieldia palustris</i>
<i>Carduus heterophyllus</i>		<i>Carex aquatilis</i> (near the
<i>Malaxis paludosa</i>		bridge)
<i>Gymnadenia albida</i>		

Afterwards went towards Craig Rennet, at the foot of Glen Fee.

Gathered :—

<i>Arctostaphylos Uva-ursi</i>		<i>Pyrola media</i>
--------------------------------	--	---------------------

Cliffs on right side of Glen Fee yielded :—

<i>Draba incana</i>		<i>Epilobium angustifolium</i>
<i>Oxytropis campestris</i>		<i>Woodsia ilvensis</i>
<i>Saxifraga nivalis</i>		

Crossed from these cliffs to opposite side and gathered abundance of:—

*Polypodium alpestre*

At the upper part of Glen Fee:—

*Thalictrum alpinum*  
*Silene acaulis*  
*Sibbaldia procumbens*  
*Saxifraga oppositifolia*  
*Epilobium alsinifolium*  
*Gnaphalium supinum*  
*Veronica alpina*  
*Salix Myrsinites*

*Salix arbutifolia*  
*Carex VahlII*  
 „ *atrata*  
 „ *rigida*  
 „ *vaginata*  
 „ *capillaris*  
*Polystichum Lonchitis*

On reaching rocks at the top of Glen Fee, walked along the summit, gathering *Azalea procumbens*. Had a glorious view of all the mountains—plenty of snow on some. Reached Clova about 8 p.m. thoroughly tired.

*Saturday, 6th August 1853.*

This morning several of the party were knocked up and remained at home. George Bayley went up Glenesk to fish. The rest of the party went to Glen Dole, and visited the rocks near the top.

There we picked:—

*Dryas octopetala*  
*Erigeron alpinus*  
*Vaccinium uliginosum*

*Veronica saxatilis*  
*Poa Balfourii*  
*Asplenium viride*

Could not get any *Astragalus alpinus*.

Walked along the rocks towards the foot of Glen Dole, gathering:—

*Epilobium alpinum*  
*Saussurea alpina*  
*Veronica alpina*

*Veronica saxatilis*  
*Salix reticulata*

Returned to the inn about 6.30 p.m., and were engaged putting up plants in paper.

Monday, 8th August 1853.

This morning, after our usual bathe in the Esk and after breakfasting, proceeded about 8 a.m. up the glen to Glen Dole, and then up Jock's Road to the summit of the hill.

Near the White Waterfall found abundance of *Polypodium alpestre* in fine fructification. In all parts of the mountain here this fern is remarkably luxuriant. At Don's original station for *Sonchus* it is very large, along with *Athyrium Filix-femina*; the two are usually associated together, and it does not seem to be the rule (as Backhouse states) that where the one begins the other ends. Along with these ferns *Lastrea Oreopteris* and *L. dilatata* are common.

At the top of Jock's Road also there is abundance of *Rubus Chamæmorus* and *Cornus suecica*—some of them were still in flower, others in fruit. *Saussurea alpina* also was seen on the rocks near the falls.

Proceeding along the White Water we looked in vain for *Juncus castaneus*, but we picked :—

Sibbaldia procumbens	Gnaphalium supinum
Epilobium alsinifolium	Veronica alpina
„ alpinum	

and many other alpine plants.

Crossing the hills towards Little Gilrannoch we gathered :—

Rubus Chamæmorus (in fine flower)	Carex vaginata (in abundance)
Epilobium alpinum	Alopecurus alpinus
Trientalis europæa (in flower)	Phleum alpinum

On the felspar rocks of Little Gilrannoch *Lychnis alpina* was found to be tolerably abundant. Only a small quantity was gathered. The party divided at this point after lunch, some returning to the inn, whilst Gilchrist, Soubki, Mostapha, Wood, A. and C. Cowan, Ross, and Balfour walked to Canlochan, descended into the glen and gathered :—

Thlaspi alpestre	Veronica saxatilis
Saussurea alpina	Luzula spicata
Gentiana nivalis	Poa alpina
Veronica humifusa	„ Balfourii
„ alpina	

Returned to the inn at Clova about 9 p.m. after a long day's work. Near Braedownie a green flowered var. of *Galium verum* was picked, and near Acharn *Hieracium denticulatum* and *Hieracium prenanthoides*.

Tuesday, 9th August 1853.

After bathing and breakfast, left the inn about 8.30 a.m. and walked to the lower part of Glen Dole. Ascended the rocks of Craig Rennet, gathering :—

*Linnaea borealis* (in fine  
flower)

*Arctostaphylos Uva-ursi*  
*Lycopodium annotinum*

Walked along the rocks towards the *Astragalus* cliff. Gathered the usual alpine plants, also :—

*Hieracium alpinum*  
" *nigrescens*  
*Mulgedium alpinum* (not  
in flower)

*Salix arenaria*  
" *reticulata*

Ascended to the summit by a deep ravine, where the *Mulgedium* grew. Examined the station of the *Astragalus* cliff, but did not see any specimens. On the summit gathered *Carex rariflora* in abundance. Walked towards the ravine which descends into Glen Fee and examined the rocks along the northern side, saw *Epilobium angustifolium*, and many alpine plants. No *Woodsia*. Returned to the inn about 7.30 p.m. Cunningham and Ogilvie left this morning.

Wednesday, 10th August 1853.

This day examined the rocks round Loch Brandy and the loch itself. The plants gathered were :—

*Subularia aquatica*  
*Callitriche autumnalis* (in a  
pool close to loch)

*Sparganium natans*  
*Isoetes lacustris*

On the rocks *Potentilla alpestris*, and all the ordinary alpine species. Looked in vain for *Potentilla tridentata*.

Returned to the inn between 5 and 6 p.m. Gathered :—

Lamium maculatum

Carex aquatilis, var., on the  
banks of the Esk

Bayley left for Perth, Stirling and Dollar; Jenner and Wood  
for Braemar.

*Thursday, 11th August 1853.*

The party, now reduced to 12, after sending their baggage by  
cart to Glamis, and breakfasting, left the inn about 10 a.m.  
and walked to Dykehead, Kirriemuir and Glamis.

On the way gathered :—

Rosa villosa

Meum athamanticum

Lysimachia vulgaris

Ligustrum vulgare (near  
Cortachy)

Mentha viridis (?) (about one  
mile from Clova Inn)

Reached Glamis Station about 4 p.m. and joined train at  
4.50, arriving in Edinburgh about 9.30 p.m.

## EXCURSIONS IN 1854.

### Canal, Slateford, Colinton, Dreghorn, Pentlands.

*Saturday, 13th May 1854.*

Party of about 80 or 90 met, 10 a.m., at the Canal Basin,  
Port Hopetoun, and walked along the banks of the Canal to  
Slateford, and thence to Colinton, Dreghorn and the Pentlands,  
returning by Morningside about 5 p.m.

Usual plants gathered. Among others :—

Anemone nemorosa

Corydalis lutea (Colinton  
grounds)

Cardamine amara

Lychnis diurna

Geranium phæum

Potentilla Fragariastrum

Antennaria dioica (Pent-  
lands)

Tussilago Farfara

Petasites vulgaris

Doronicum Pardalianches

Vinca major (Colinton)

„ minor

Lilium Martagon

Arum maculatum (near  
Dreghorn gate)

**Burntisland, Pettycur, Kinghorn.***Saturday, 20th May 1854. Queen's Birthday.*

Party of 120 met at the Dundee and Perth Railway Station and at Scotland Street Station at 9.45 a.m., and proceeded to Burntisland. Return tickets, 9d.

Visited the Island, gathering :—

Salvia Verbenaca  
Parietaria officinalis

Sclerochloa maritima  
„ Ioliacea

Thence walked to hills to the east of Burntisland, where we got *Botrychium Lunaria*. Mr. David Philip Martyn picked *Orobancha rubra*. Mr. Lowe gathered *Alyssum calycinum* (on the bank near the roadside) and *Reseda lutea* was also found. Some shale plants, as *Lepidodendron*, and some coaly matter, in the trap tuff.

Walked by the shore to Pettycur and then by Kinghorn and Kinghorn Loch to Burntisland.

Picked on the way *Fumaria micrantha*, *Thlaspi arvense*, *Littorella lacustris*, *Potamogeton lucens*, *Nostoc* on stones in running water, and a peculiar kind of lichen on stones at Kinghorn Loch.

**Tynehead Borthwick Castle, Crichton Castle, Fushie Bridge, Gorebridge.***Saturday, 27th May 1854.*

Party of 130 met at the North British Railway Station at 11 a.m. and proceeded to Tynehead, thence they walked to Crichton Castle, Borthwick Castle, Fushie Bridge, and Gorebridge, returning by the train which passes Gorebridge at 7.27 p.m. Return tickets, 1s. 2d.

Near Tynehead *Genista anglica* was gathered in profusion, and also :—

Hippophaë rhamnoides  
Gymnadenia albida (by  
Mr. Fairbairn)

Botrychium Lunaria  
Lycopodium Selago  
„ clavatum

In woods on the bank of the stream :—

Cardamine amara (near Crichton Castle)	Listera cordata
Alyssum calycinum	Carex paniculata
Viola palustris	" paludosa
" sylvatica	Polypodium Dryopteris
Cerastium arvense	" Phegopteris
Vicia Orobus	Equisetum arvense
Anthemis arvensis	" sylvaticum
Pyrola media	" palustre

Near Borthwick Castle :—

Cardamine amara	Humulus Lupulus
Myrrhis odorata	Arum maculatum
Anchusa sempervirens	Potamogeton oblongus

*Valeriana dioica* was also gathered, but very sparingly, the chief station being destroyed by the draining of the marsh. It was also gathered by the side of a hedge to the west of Fushie Bridge. The station for *Trollius europæus* has been destroyed by cultivation.

### Burntisland, Starly Burn, Aberdour, Donibristle.

Saturday, 3rd June 1854.

Party of about 100 met at the Dundee and Perth Railway Station and at Scotland Street Station, and proceeded to Burntisland. Return tickets, 9d.

Walked to Starly Burn, Aberdour, and Donibristle, and returned by the boat at 5.10 p.m.

The following plants were gathered :—

Thalictrum majus (Aberdour)	Euonymus europæus
Lepidium campestris (near Aberdour)	Medicago maculata (Donibristle)
Thlaspi arvense	Dipsacus sylvestris (near Donibristle)
Sagina subulata	



Primula elatior	Ornithogalum umbellatum
Anchusa sempervirens (Aberdour Castle)	Blysmus rufus
Solanum Dulcamara	Carex distans
Atropa Belladonna	„ extensa
Hyoscyamus niger (near Donibristle)	Ophioglossum vulgatum (Aberdour)
Allium Scorodoprasum	Botrychium Lunaria (Aberdour)

**Bathgate, Boghead, Torbane Hill, Kirkton, Woodcockdale,  
Linlithgow.**

*Saturday, 10th June 1854.*

Party of about 80 met at the Edinburgh and Glasgow Railway Station at 8.15 a.m. and proceeded to Bathgate, thence walked to Boghead and Torbane Hill, Kirkton, Knock Hill, Woodcockdale, Lithgow Bridge, and Linlithgow. Return tickets, 1s. 6d. each. Visited Torbane Hill coal-pit; about 40 of the party descended under the guidance of Mr. M'Kinlay. Numerous fossils seen—*Stigmara*, *Sigillaria*, *Calamites*. Many species of *Carex* picked in the boggy ground near, also *Vaccinium Oxycoccus* and *Leontodon palustris*, and near Kirkton *Senecio saracenicus*, *Chara flexilis*. Near Bathgate *Geranium lucidum*. Near Bellside *Sedum Telephium* and *Pyrethrum Parthenium*.

**At and near Knock Hill:—**

Hesperis matronalis	Sedum villosum
Viola lutea	Symphytum tuberosum
Cerastium tetrandrum	Botrychium Lunaria

**At Kipps:—**

Sisymbrium Thalianum	Sagina subulata
----------------------	-----------------

**In Woodcockdale:—**

Trollius europæus	Doronicum Pardalianches
Geranium sylvaticum	

Near Linlithgow :—

*Fumaria micrantha*  
*Nasturtium palustre* (the  
 Loch)

*Rumex obtusifolius* (with  
 very large leaves like  
*R. alpinus*)  
*Lilium Martagon*

Returned by train passing Linlithgow at 6.39 p.m.

### Cockburnspath, Dunglass Dene, Pease Dene.

*Saturday, 17th June 1854.*

The morning was very unpromising, but 55 met at the North British Railway Station at 7.45 a.m. and proceeded to Cockburnspath. Return tickets, 2s.

The day turned out very wet, and the east wind was very cold. The ardour of a great number of the party was damped on reaching Cockburnspath, and they remained at the Inn all day or returned to Edinburgh. Nevertheless 15 or 20 ventured up Dunglass Dene; on coming to the bottom of the glen, on returning, several of the party left for the purpose of walking to Dunbar and Linton. About 12 still remained who proceeded along the coast, but by the time the party reached Pease Dene only nine remained, who continued to the last, and got back to Cockburnspath at 3 p.m., when they got their habiliments dried at Mrs. Wetherall's kitchen fire; the drying scene was not a little ludicrous.

A number of good plants were gathered :—

In Dunglass Dene, besides some good specimens of ferns, there were :—

*Eranthis hyemalis*  
*Cardamine amara*  
*Hypericum calycinum*  
*Acer campestre*  
*Ribes alpinum*  
*Campanula latifolia*  
*Pyrola minor*  
*Lysimachia Nummularia*  
*Vinca major*  
 „ *minor*

*Anchusa sempervirens*  
*Veronica montana*  
*Lamium Galeobdolon*  
*Neottia Nidus-avis*  
*Carex pendula*  
 „ *lævigata*  
*Scolopendrium vulgare*  
*Polystichum aculeatum*  
*Equisetum Telmateia*

On the shore :—

Glaucium luteum	Enanthe crocata
Astragalus hypoglottis	

In Pease Dene, *Vicia sativa*, var. *angustifolia* and *Poly-stichum angulare*.

The party returned by train passing Cockburnspath at 6 p.m.

In Dunglass Dene a plant (not in flower), which appears to be *Solidago altissima*, was gathered.

### East Linton, Prestonkirk, Tynningham, Belhaven Sands, Dunbar.

Saturday, 24th June 1854.

Party of 50 met at the North British Railway Station at 8 a.m. and proceeded to East Linton; thence they walked to Prestonkirk, Tynningham, where they were met by Mr. Lees; and then proceeded by the sands to Belhaven and Dunbar, returning by the train passing Dunbar at 6.25 p.m. Return tickets, 2s. Amongst the 140 species of plants gathered were :—

Near Prestonkirk :—

Fumaria capreolata	Malva sylvestris
„ micrantha	„ rotundifolia
„ officinalis	Ballota foetida

Near Tynningham and at the mouth of the Tyne :—

Lepigonum maritimum	Hieracium aurantiacum
Antennaria maritima, var. gallica	Salicornia herbacea
	Suaeda maritima

On Belhaven sands :—

Reseda lutea	Plantago major (in a viviparous state)
Onobrychis sativa	
Poterium Sanguisorba	

## Kincardine, Tulliallan.

Saturday 1st July 1854.

Party of 66 went by train to Granton at 6.30 a.m. Return tickets, rail, 3d. each. Then by Stirling boat to Kincardine, paying 2d. at pier at Granton (2d. also returning). Return tickets by steamboat, 1s.

On reaching Kincardine, breakfasted at Dewar's Unicorn Inn for 1s. 3d. each. Then under the direction of a guide kindly supplied by Mr. Menzies, Count Flahault's factor, we walked through Tulliallan woods and garden, and gained the shore near sands, returning by the embankment to Kincardine, and going on board the steamboat at 6.45 p.m.

Among the best plants gathered were :—

Corydalis claviculata	Parietaria officinalis
Fumaria capreolata	Empetrum nigrum
„ micrantha	Habenaria viridis
„ officinalis	„ bifolia
Sagina maritima	„ chlorantha
Lepigonum rubrum	Carex pulicaris
„ marinum	„ fulva
Geranium lucidum (old castle)	„ riparia
Genista anglica	Milium effusum
Rubus cæsius?	Molinia cærulea
Rosa arvensis?	Glyceria aquatica
Ænanthe crocata	Sclerochloa distans
Viburnum Opulus	Festuca arundinacea
Vaccinium Vitis-Idæa	Hordeum pratense (on embankment)
Triantalis europæa (abundant in Tulliallan woods)	Hordeum maritimum
Ligustrum vulgare	Juniperus communis
Anchusa sempervirens	Lastrea Oreopteris
Solanum Dulcamara	Osmunda regalis (on sands)

An abundance of *Ranunculus hirsutus* near Kincardine, eighteen inches high, and of the var. *parvulus* on the shore.

**Inchkeith, Inchcolm.***Saturday, 8th July 1854.*

Party of upwards of 200 went to Inchkeith and Inchcolm. Tickets, including railway to Leith and steamboat, 2s. 6d. The party met at the railway station at 7.45 a.m., and proceeded to Leith. The Stirling steamboat "Prince of Wales" had been hired and was waiting at the West Pier. Professor Edward Forbes and many of his pupils joined the trip.

The party first went to Inchkeith, where they arrived about 9.30 a.m., and after spending three or four hours on the island they proceeded to Inchcolm, on which they remained for a couple of hours. The day was favourable, and lunch was supplied partly on deck. Among the interesting plants collected on Inchkeith were the following :—

*Sinapis nigra*  
*Conium maculatum* (abundant)  
*Haloscias scoticum*

*Hyoscyamus niger* (very abundant)  
*Marrubium vulgare*

On Inchcolm *Dipsacus sylvestris* and *Hyoscyamus niger* were seen, and peculiar fasciated stems and heads of *Carduus*.

---

**Longniddry, Gosford, Aberlady, Luffness, Gullan, Dirleton.**

*Saturday, 15th July 1854.*

Party of about 50 met at the North British Railway Station at 8 a.m. and proceeded to Longniddry. Thence walked to Gosford, Aberlady, Luffness, Gullan, and Dirleton, and returned by train at 6.55 p.m. from Drem. Return tickets, 1s.

Amongst plants gathered were :—

*Silene anglica* (near Luffness)  
*Silene noctiflora* (Luffness, abundant)

*Trifolium fragiferum*  
*Sedum album*  
 „ *reflexum*  
*Hippuris vulgaris*

Smyrniolum Olusatrum	Utricularia vulgaris
Helosciadium repens	Hippophaë rhamnoides
Sium angustifolium	Habenaria viridis
Centranthus ruber	Scirpus Tabernæmontani
Carduus nutans	„ maritimus
Centaurea Scabiosa	Carex vulpina
Thrinia hirta	Lepturus filiformis
Campanula hybrida	Triticum repens
Anagallis arvensis	„ laxum (near Luff-
„ tenella	ness)
Asperugo procumbens	Chara hispida
Scrophularia vernalis	„ vulgaris
Limosella aquatica (Gullan and at Drem)	

### St. Andrews, Guard Bridge, Leuchars.

*Saturday, 22nd July 1854.*

Party of 86 met at the Edinburgh, Perth, and Dundee Railway Station at 6.30 a.m. and proceeded to St. Andrews. Return tickets, 3s. 8d. Professor Edward Forbes and Dr. Greville were in the party.

Reached St. Andrews about 10 a.m., and breakfasted in the Town Hall (76 sat down to breakfast). Mr. Thomson of the Star Hotel provided breakfast at 1s. 6d. each.

After breakfast, walked by Links to Guard Bridge and thence to Tents Muir, reaching Leuchars about 6 p.m. in time for the train.

Among the plants gathered were the following :—

Fumaria micrantha	Carex incurva
Lychnis Githago	Lycopodium Selago
Oenanthe crocata	„ inundatum
Anthemis Cotula	„ clavatum
„ arvensis	„ selaginoides
Anagallis tenella	Didymodon inclinatum
Rhinanthus major	Trichostomum rubellum
Littorella lacustris	Gymnostomum fasciculare
Euphorbia Esula	Bryum trichodes
Juncus balticus	

**Loch Lomond.***Wednesday, 26th July 1854.*

Party consisting of J. H. Balfour, Edward Forbes, Thomas Barclay, George Coates Bell, H. M. Birdwood, Thomas M. Cage, M. Cowan, Henry Davidson, Robert Dean, Robert Farquharson, Patrick Graham, Thomas Hardie, John Hay, James Hector, Wm. R. Hill, Robert D. Horne, William F. Humphrey, William Johnston, Mohamid Ali Katib, James Landall, Henry Leach, James H. Lock, Stevenson Macadam, David P. MacLagan, Robert MacLagan, John Matthews, James Miller, R. Mutrikima, William Nichol, Alexander Nicolson, John Grant Nicolson, Alexander Peddie, James Peddie, junr., F. H. Richardson, William O. Roberts, Alexander R. Simpson, David Simpson, M. A. Soubki, P. Appleby Stephenson, Wm. R. Todd, J. B. Tuke, Thomas J. Walker, James Wardrop, John K. Wilson, left Edinburgh at 5 p.m. on Wednesday, 26th July, and proceeded to Glasgow. Were accommodated at the Queen's Hotel. Return tickets to Inverarnan and back to Edinburgh, 7s. 6d.

*Thursday, 27th July 1854.*

Left by the steamboat at 7 a.m. for Bowling and Loch Lomond; reached Inverarnan about 11.30 a.m. Were all comfortably accommodated by M'Lellan, the innkeeper. Proceeded up Glen Falloch, picking *Quercus pedunculata* and *Quercus sessiliflora*, and ascended some of the lower hills about a mile and a half from Inverarnan.

Gathered :—

*Saxifraga stellaris*  
 „ *aizoides*  
*Sedum Rhodiola*

*Oxyria reniformis*  
*Hymenophyllum Wilsoni*

Returned by Glen Caorunn, gathering a number of subalpine ferns.

*Friday, 28th July 1854.*

Started about 7.15 a.m. to visit Ben Laoigh, Ben Oss, and

other hills in the neighbourhood. On Ben Dubh Chraige picked the following plants :—

Thalictrum alpinum	Malaxis paludosa
Arabis petræa	Habenaria chlorantha
Cochlearia grœnlandica	Juncus trifidus
Silene acaulis	„ triglumis
Sagina subulata	Luzula spicata
Rubus Chamæmoros	Rhynchospora alba
Sibbaldia procumbens	Carex pauciflora
Saxifraga oppositifolia	„ rigida
„ stellaris	„ capillaris
„ aizoides	„ saxatilis
„ hypnoides	Aira cæspitosa vivipara
Epilobium alpinum	Poa alpina
Antennaria dioica (var. of Don)	„ Balfourii
Gnaphalium supinum	Asplenium viride
Saussurea alpina	Cystopteris fragilis
Vaccinium uliginosum	„ dentata
Armeria maritima	Polystichum Lonchitis
Euphrasia officinalis	Polypodium Dryopteris
Rhinanthus Crista-galli	„ Phegopteris
Plantago maritima	Botrychium Lunaria
Polygonum viviparum	Lycopodium Selago
Oxyria reniformis	„ alpinum
Salix arenaria	„ selaginoides
„ herbacea	Andreæa
	Hookeria

Professor Forbes visited Ben Oss and gathered similar alpine species, and in addition *Allosorus crispus*.

*Saturday, 29th July 1854.*

Party, diminished by departure of some members, started about 8 a.m. and proceeded along banks of Falloch towards Ben Voirlich. Geological party under Professor Forbes proceeded by shore of lake. Botanical party ascended Ben Voirlich and descended to Loch Sloy, reaching Tarbet about 3 p.m.



Among the plants gathered were the following :—

Thalictrum alpinum	Epilobium alpinum
Ranunculus acris (alpine form)	Carum verticillatum (near Tarbet)
Corydalis claviculata	Gnaphalium supinum
Cardamine pratensis	Lysimachia vulgaris
Cochlearia vars.	Scutellaria galericulata (Loch Lomond)
Cerastium alpinum	Salix herbacea
Hypericum Androsæmum	Listera cordata
„ humifusum	Juncus trifidus
Rubus nitidus	„ triglumis
Sibbaldia procumbens	Luzula spicata
Alchemilla alpina	Carex pauciflora
Saxifraga oppositifolia	„ rigida
„ stellaris	„ saxatilis
„ aizoides	Poa Balfourii
„ hypnoides	Osmunda regalis
Sedum Rhodiola	Lycopodium annotinum
„ anglicum (near Tarbet)	Isoetes lacustris
Lythrum Salicaria	

Joined the steamboat at 4 p.m. and reached Glasgow at 8 p.m. Returned by train which left Glasgow at 9, and reached Edinburgh about 11 p.m.

### Braemar.

*Tuesday, 8th August 1854.*

Party composed of J. H. Balfour, M. A. Badre, Thomas Barclay, George Coates Bell, Herbert M. Birdwood, Edward W. Cropper, J. Earle, James Gilchrist, M. A. Katib, G. Lawson, G. S. Lawson, James Miller, David Ross, M. A. Soubki, J. G. Whitehead, left Edinburgh by the Edinburgh, Perth and Dundee Railway at 9.45 a.m. on Tuesday, 8th August 1854. Return tickets, available for 14 days, had been granted for 12s. 6d. Train reached Aberdeen much behind its time; in place of 4.23, being 5.30. Dined at Douglas Hotel close to the

station, and at 7 p.m. proceeded by train to Banchory. On our arrival there found all the inns occupied. The party had to hunt for beds in the village.

*Wednesday, 9th August 1854.*

Party breakfasted at the Burnett Arms, and after sending baggage by a cart to Aboyne and Ballater, started on their walk. Examined woods on the banks of the Dee. Gathered :—

Rubus cordifolius	Plantago maritima
Pyrola (several species)	Goodyera repens (abundant
Trientalis europæa	in woods at Aboyne)

Lunched at Aboyne, a very comfortable hotel. Visited Suspension Bridge, walked by south side of Dee to Ballater. Visited Pannanich Wells, near them there is abundance of *Mimulus luteus*. Near Ballater there is abundance of *Melampyrum sylvaticum*. Were comfortably accommodated at the inn at Ballater.

*Thursday, 10th August 1854.*

Left Ballater at 8 a.m. after sending the baggage by cart to Castleton of Braemar. Walked along the banks of the Dee as far as the Balmoral Suspension Bridge, crossed the bridge to Balmoral, and were allowed by Dr. Robertson to see all parts of the grounds. Visited the old and new buildings under the guidance of Mr. Paterson, the gardener. The old building appears to be most in keeping with the situation. The new Palace is built of beautiful white granite from Glen Gelder; the building is very chaste and elegant so far as it has been completed; much remains to be done. It is proposed to have a square tower connected with it, 100 feet high. The flower-garden is well kept. Went by the private walks to the summit of a hill overlooking Balmoral, and had a fine view. Picked :—

Vaccinium Vitis-Idæa	Melampyrum sylvaticum
Pyrola secunda	Neottia Nidus-avis

The gardener informed us that the Queen occasionally used *Lycopodium clavatum* as a wreath for her head.

Proceeded to Lochnagar, botanised in the corrie, gathered abundance of *Polypodium alpestre*, which commenced a few hundred feet below the little tarn and extended up to the high cliffs. No *Asplenium Filix-fœmina* was seen.

Among the plants gathered were:—

Cerastium alpinum	Hieracium alpinum (very hairy)
Rubus Chamæmorus	Juncus trifidus
Sibbaldia procumbens	„ triglumis
Saxifraga oppositifolia	Luzula spicata
„ stellaris	Phleum alpinum
„ aizoides	Poa alpina vivipara
„ rivularis	„ laxa
„ hypnoides	Allosorus crispus
Epilobium alpinum	Lastrea dilatata (in various forms)
Cornus suecica	Lycopodium annotinum
Antennaria dioica, var.	
Gnaphalium sylvaticum, var.	
Gnaphalium supinum	

After reaching the top, descended by Ballochbuie, gathering on the way *Splachnum nnioides* growing on the jaw-bone of a dead sheep, and *Betula nana*.

Reached Invercauld Arms, Braemar, about 9.30 p.m., after a long and fatiguing walk. Found all prepared for us by Mr. G. Clark.

*Friday, 11th August 1854.*

All were so tired with yesterday's journey that we did not breakfast till about 9 a.m. At 10 started for Little Craighendal, going by the second valley on the right hand after crossing the Ben na Bourd burn by a wooden bridge. It is perhaps better to take the third valley on the right, and thus to come on the south-west corner of Little Craighendal, where *Astragalus alpinus* grows.

Among the plants gathered, besides the *Astragalus*, on Little Craighendal were the following:—

Silene acaulis	Pyrola secunda
Potentilla alpestris	Carex capillaris
Sibbaldia procumbens	Bartramia fontana (male and female)
Gnaphalium supinum	

The *Astragalus* had flowered early, and only a few specimens were procured in blossom.

Returned to the inn about 6.30 p.m.

*Saturday, 12th August 1854.*

Left the inn this morning at 8 o'clock in two carriages, and proceeded to the foot of Loch Callater, thence walked to rocks in Glen Callater and Glen Candlich (Cean-mohr?). The day became very wet and misty, and after spending three or four hours on the rocks, and being thoroughly wet, we returned to the inn about 4.30 p.m.

The plants gathered were (besides lower cryptogams):—

<i>Thalictrum alpinum</i>	<i>Salix Lapponum</i>
<i>Subularia aquatica</i>	„ <i>arbutifolia</i>
<i>Saussurea alpina</i>	„ <i>reticulata</i>
<i>Hieracium</i> (many forms)	<i>Carex rupestris</i>
<i>Lobelia Dortmanna</i>	„ <i>atrata</i>
<i>Salix venulosa</i>	„ <i>stictocarpa</i>

*Monday, 14th August 1854.*

The morning being misty we postponed our trip to Ben na Mac Dhu. The whole party (with the exception of Mr. Bell, who went fishing) proceeded in a large car, accompanied by Mr. Esson, the accountant, to visit Canlochan. The car took the party a little beyond a bridge about eight miles from Castleton, on the Spital of Glenshee road. The party ascended the hill and visited the Canlochan rocks.

In the Glen we picked the following plants:—

<i>Draba incana</i>	<i>Hieracium</i> forms
<i>Cochlearia</i> forms	<i>Sonchus alpinus</i> (about 6 or 8 specimens in flower)
<i>Cerastium alpinum</i>	<i>Pyrola rotundifolia</i>
<i>Dryas octopetala</i>	„ <i>minor</i>
<i>Saxifraga nivalis</i>	<i>Gentiana nivalis</i> (sparingly)
„ <i>stellaris</i>	<i>Veronica humifusa</i>
„ <i>aizoides</i>	„ <i>alpina</i>
„ <i>hypnoides</i> (with large flower)	„ <i>saxatilis</i> (sparingly in flower)
<i>Erigeron alpinus</i>	

<i>Carex vitilis</i>	<i>Poa Balfourii</i>
„ <i>atrata</i>	„ <i>nemoralis</i>
„ <i>rigida</i>	<i>Asplenium viride</i>
„ <i>aquaticus</i>	<i>Polystichum Lonchitis</i>
„ <i>stictocarpa</i>	<i>Polypodium alpestre</i> (in large
„ <i>capillaris</i>	quantity, and towards
„ <i>binervis</i>	the east side of Canlochan
<i>Poa alpina</i>	very large)

The rocks in the Glen are of a basalt or hypersthene nature.

Visited Glas Maol and had a splendid view of all around as the day cleared up. Saw the Lomonds in Fife, Pentlands, and Edinburgh? Ochils, Ben Lawers, Ben Nevis, all the Braemar hills. Descended from Glas Maol, joined the road about three miles from the Spital of Glenshee, and joined the car at the bridge about 6 p.m. and returned to Castleton.

*Tuesday, 15th August 1854.*

The morning being fine we breakfasted at 6 a.m. and started at 7 by conveyance to the Linn of Dee, accompanied by Mr. Rathay and Mr. Esson (in all 15). Mr. Barclay had a horse and guide to meet him at the Linn of Dee and take him to Loch Etchachan. We walked by Glen Lui after seeing the Linn of Dee and the Mar Forest. We gathered *Arabis petraea* in stony places in the bed of the Linn.

Remarked particularly in all the old firs deprived of their bark the spiral arrangement of the wood. The trees were dead. Got a curious knot from one of the trees for the Museum. Walked up Glen Derry to Loch Etchachan and then to the top of Ben na Mac Dhu, which we reached between 1 and 2. On the way gathered *Luzula arcuata* and some other rare plants.

On or about the summit among the plants seen were:—

<i>Silene acaulis</i>	<i>Andræa rupestris</i>
<i>Gnaphalium supinum</i>	<i>Polytrichum alpinum</i>
<i>Salix herbacea</i>	<i>Dicranum nigro-viride</i>
<i>Luzula arcuata</i>	<i>Trichostomum lanuginosum</i>
„ <i>spicata</i>	<i>Cetraria islandica</i>
<i>Carex rigida</i>	„ <i>nivalis</i>
<i>Festuca ovina vivipara</i>	<i>Lecidea geographica</i>
<i>Lycopodium Selago</i>	

Lunched at the summit and had a fine view, descended towards the shelter and Loch Avon amidst a pretty severe shower.

Gathered *Carex leporina* on the sides of a stream going to the corrie of the Avon, not far from patches of snow, also *Stellaria cerastoides* and many alpine plants. *Polypodium alpestre* abounds on the ascent to Loch Etchachan and on the descent to Loch Avon, also on the ascent to Cairngorm from Loch Avon. It is a very abundant fern. Reached the Shelter Stone by a steep and rugged descent about 4 p.m. Our men had brought up plaids and provisions. They returned with the horses. Proceeded to make a fire of juniper. Kettle boiled and tea prepared. Mr. Rathay, alarmed at the dampness of the cave, left us at 7 p.m., and walked to Castleton, which he reached at 2 in the morning.

We had a restless night in the cave. Some sat up all night and kept themselves warm by the fire outside. The stone is 40 feet long, on an average, 20 feet broad, and about 16 or 18 feet high.

*Wednesday, 16th August 1854.*

Mr. Esson returned this morning to Castleton; the rest of the party after breakfast ascended to Cairngorm, gathering abundance of *Polypodium alpestre*, *Luzula arcuata*, and other alpine plants. Mist came on after the party reached the summit; the fine view was only seen for a few minutes. Descended from summit and visited cliffs looking to the Spey side. These cliffs seem worthy of examination. It is probable that the best way of examining all the hill in this quarter is from the Spey side. Important to find accommodation on that side. Walked by back of Ben na Mac Dhu, picking numerous confervoid plants. Descended into the valley of the Dee; had beautiful view of the pass to Rothiemurchus. After reaching Glen Dee visited the Wells of Dee; near this there is abundance of *Polypodium alpestre* all the way, continuing till opposite Cairn Toul. On the descent from Ben na Mac Dhu, *Asplenium Filix-femina* picked by Mr. G. Lawson, high up, above *Polypodium alpestre*.

Among other plants were gathered :—

Stellaria cerastoides		Veronica alpina
Hieracium alpinum		Phleum alpinum

Lunched at Wells of Dee. Rain came on and continued till about five. Met our conveyance near the Linn of Dee and returned about 7 p.m.

*Thursday, 17th August 1854.*

After paying bill and arranging for transmission of baggage to Dunkeld by a cart, the party left in a conveyance for the head of Glen Tilt (Mr. G. S. Lawson returned to Aberdeen) about 11 a.m. Walked through the Glen, picking alpine saxifrages and :—

Rubus saxatilis		Asplenium viride
Epilobium angustifolium		Polystichum Lonchitis

Near the Glen, in the woods :—

Campanula latifolia		Melampyrum sylvaticum
---------------------	--	-----------------------

Dr. Gilchrist visited the Marble Quarry near the bridge about four or five miles from Blair. A bridge near the upper part of the Glen is broken down, so that it is almost impossible for an ordinary traveller to proceed without wading up to the knees ; in a flood it must be quite impassable. Surely the Right of Way Society should see that the road is passable for travellers. Our party were not interrupted, although we went by the same route as my party in 1847 did. The gate at which we were stopped was at once opened to them by an old woman. Most of the party kept on the left side of the river after passing the lowest bridge and descended by what was the old road, keeping clear of the woods entirely. Reached the Bridge of Tilt Inn about 8 p.m. and were comfortably accommodated.

*Friday, 18th August 1854.*

This morning party breakfasted at 6 a.m. and at 7 commenced their walk. Mr. Barclay went by the mail to Dunkeld. Walk-



ing party 11 in number proceeded by Killiecrankie, gathering *Lathyrus niger* in the woods nearly opposite Mrs. Hay's cottage. Attempt is now made to shut up the old Killiecrankie road and to allow visitors to enter by a small gate which is kept locked and only opened when parties request permission to go through. Our party were escorted by a Highlander. Spent about an hour in the wood. Reached Dunkeld about 1.30 p.m., when Mr. Barclay met the party. After lunch at Fisher's Inn, proceeded by coach to Dunkeld Road Station, and joined the railway, reaching Edinburgh about 9 p.m.

### EXCURSIONS IN 1855.

**Granton, Caroline Park, Cramond Woods, Barnton.  
Craigcrook, Craigleith.**

*Saturday, 12th May 1855.*

About 100 met at Granton Pier at 10 a.m. Walked by shore to Caroline Park, Granton Woods, Cramond Woods, and returned by Barnton, Craigcrook, and Craigleith. Visited Granton Quarry and got a specimen of the fossil tree.

Among the plants gathered were :—

Anemone nemorosa	Oxalis Acetosella
Ranunculus Ficaria	Prunus domestica
Caltha palustris	Geum rivale
Eranthis hyemalis (at Caroline Park)	Potentilla Fragariastrum
Aconitum Napellus (at Caroline Park)	" verna
Fumaria capreolata	Saxifraga granulata
Cochlearia officinalis	Chrysosplenium oppositi- folium
Capsella Bursa-pastoris	Ribes Grossularia
Viola odorata	" alpinum
" hirta	" rubrum
" sylvatica	" nigrum
Geranium molle	Bunium flexuosum
" lucidum	Valerianella olitoria
	Tussilago Farfara

Petasites vulgaris	Salix Smithiana
Doronicum Pardalianches	„ Helix
Vinca minor	Stratiotes aloides
Myosotis arvensis	Polygonatum multiflorum
Veronica hederæfolia	Luzula sylvatica
Mentha viridis	Lemna trisulca
Lamium purpureum	„ minor
„ incisum	Asplenium Trichomanes
„ maculatum	Equisetum arvense
„ album	„ limosum
Polygonum Bistorta	Polytrichum piliferum
Daphne Laureola	Dicranum scoparium
Mercurialis perennis	Trichostomum lanuginosum
Ulmus montana	Bryum punctatum
Salix triandra	Didymodon purpureum
„ alba	Hypnum splendens
„ Caprea	Ramalina scopulorum
„ viminalis	Cetraria islandica

### Tynehead, Borthwick, Fushie Bridge, Gorebridge.

*Saturday, 19th May 1855.*

Party of 100 met at the North British Railway Station at 10.45 a.m. and proceeded to Tynehead, thence walked to Borthwick and Fushie Bridge, and returned by train passing Gorebridge at 4.57 p.m. Return third-class tickets, 1s. 2d.

Vegetation very far back, three weeks or a month behind. Observed colours in vegetation as they affected the eye, found that the yellow dandelion and green grass were very marked features. M'Cosh talks of the red stalk of the dandelion, but in most cases they were green, and even when a reddish or brownish tinge was present it did not appear to the eye. The marked effect was produced by yellow and green, and these, although not complementary colours, were pleasing. So also in many places nothing seen but the yellow primroses and the green sward—without any other colour, no white nor red. Some of the party visited Arniston also.

Some of the plants gathered were :—

Ranunculus aquatilis	Anchusa sempervirens
„ Ficaria	Myosotis sylvatica
Caltha palustris	„ arvensis
Viola palustris (not in flower)	Lathræa Squamaria
„ tricolor	Lamium amplexicaule
„ arvensis	Salix Caprea
Oxalis Acetosella (with pink flower, nearly all the plants had flowers of this colour and were very beautiful)	Empetrum nigrum
Genista anglica	Luzula pilosa
Lathyrus macrorrhizus	Arum maculatum (not expanded)
Fragaria vesca	Phalaris arundinacea
Potentilla Fragariastrum	Melica nutans
Chrysosplenium oppositi- folium	Juniperus communis
„ alterni- folium	Equisetum arvense
Adoxa Moschatellina	„ sylvaticum
Doronicum plantagineum (scarcely in flower)	„ limosum
Pyrola media (not in flower)	Chara vulgaris
Primula vulgaris	„ flexilis
„ veris	Polytrichum commune
Fraxinus excelsior	Dicranum heteromallum
	Didymodon purpureum
	Bryum hornum
	Hypnum cuspidatum
	Stereocaulon paschale
	Evernia prunastri

**Mid-Calder, Meadowbank, Dalmahoy Hills, Ravelrig,  
Balerno, Currie, Woodhall.**

*Saturday, 26th May 1855.*

Party of 75 met at the Caledonian Railway Station, Lothian Road, at 8.30 a.m., and proceeded to Mid-Calder, thence walked to Meadowbank, Dalmahoy Hills, Ravelrig, Water of Leith, Balerno, Currie, and Woodhall. Returned from Currie by the train passing that place at 5.26 p.m. Return tickets, 8d. Vegetation was found to be far behind.

Among the plants gathered were :—

Anemone nemorosa	Mentha viridis (not in flower)
Ranunculus acris	Nepeta Glechoma
"    repens	Lamium incisum
"    Ficaria	Mercurialis perennis
Caltha palustris	Ulmus montana
Meconopsis cambrica (in bud)	Fagus sylvatica
Cardamine sylvatica	Salix fragilis
Sisymbrium Thalianum	"    Caprea
Alliaria officinalis	"    viminalis
Viola palustris	"    Smithiana
"    sylvatica	"    Helix
"    canina	Empetrum nigrum
"    tricolor	Orchis mascula
"    lutea	Allium ursinum (not out)
Arenaria serpyllifolia	Tulipa sylvestris
Montia fontana	Paris quadrifolia (not in flower)
Oxalis Acetosella	Luzula pilosa
Acer platanoides	"    sylvatica
Vicia sepium	"    campestris
Lathyrus macrorrhizus	Arum maculatum (nearly out)
Prunus insititia	Carex vulgaris
"    communis	"    glauca
Potentilla Fragariastrum	"    pallescens
Saxifraga granulata	Equisetum arvense
"    hypnoides (in bud)	"    palustre
Ribes Grossularia	Polytrichum commune
"    rubrum	Didymodon purpureum
Myrrhis odorata	Bartramia pomiformis
Anthriscus sylvestris	Bryum punctatum
Adoxa Moschatellina	"    pyriforme
Antennaria dioica	Funaria hygrometrica
Vaccinium Myrtillus	Lecanora tartarea
Primula vulgaris	Cladonia rangiferina
"    veris	Alectoria jubata
Fraxinus excelsior	Cetraria glauca
Vinca minor, var. alba	Calicium chrysocephalum
Menyanthes trifoliata	Bæomyces rufus
Anchusa sempervirens	Scyphophorus pyxidatus
Scrophularia vernalis	"    bellidiflorus
Veronica serpyllifolia	phærophoron coralloides
Pedicularis sylvatica	

**Burntisland, Aberdour, Donibristle, Humble Woods,  
Pettycur, Kirkcaldy, Wemyss.**

*Saturday, 2nd June 1855.*

Party of 60-70 proceeded at 9.45 a.m. by train to Burntisland, and returned by the train at 5 p.m. Return tickets, 9d. Walked from Burntisland to the Island, then by the shore all the way to Aberdour, thence to Humble Woods, Grange Quarry, and Burntisland. Some of the party went to Donibristle, others to Wemyss, Dysart, and Kirkcaldy.

Among the plants gathered were the following:—

Ranunculus acris	Smyrnium Olusatrum (near Kirkcaldy)
„ repens	Hedera Helix (in fruit)
„ bulbosus	Dipsacus sylvestris (not in flower)
„ Ficaria	Matricaria Parthenium (old Castle, Aberdour, not in flower)
Berberis vulgaris (near Aberdour)	Silybum Marianum (not in flower)
Arabis hirsuta	Hieracium murorum
Cardamine hirsuta	„ vulgatum
Alyssum calycinum (near Pettycur)	Leontodon lævigatus
Cochlearia officinalis	Vaccinium Myrtillus
„ danica	Armeria maritima
Brassica Napus	Glaux maritima
„ Rapa	Fraxinus excelsior
Lepidium campestre	Anchusa sempervirens
„ Smithii	Solanum Dulcamara (not in flower)
Thlaspi arvense	Linaria Cymbalaria
Helianthemum vulgare	Antirrhinum majus (old Castle, Aberdour, not in flower)
Viola hirta	Veronica Chamædrys
Cerastium tetrandrum	„ Beccabunga
Geranium sanguineum	Lamium amplexicaule
„ molle	„ purpureum
Ilex Aquifolium	„ incisum
Medicago maculata	
Vicia lathyroides	
Prunus insititia	
„ domestica	
Saxifraga granulata	

Lamium album	Blysmus rufus
Plantago Coronopus	Carex præcox
Rumex scutatus (Aberdour Castle)	„ distans
Ulmus montana	Avena pubescens
Parietaria erecta	Sclerochloa loliacea (Burnt-island Pier)
Quercus Robur	Pinus sylvestris
Orchis mascula	Asplenium marinum (Wemyss)
„ „ var. alba	Ophioglossum vulgatum
Allium Scorodoprasum (not in flower)	Botrychium Lunaria
Tulipa sylvestris (Donibristle)	Equisetum arvense
Triglochin maritimum	„ sylvaticum

Many sea-weeds.

### Linlithgow, Carriden, Blackness, Hopetoun.

*Saturday, 9th June 1855.*

Party of 74 met at the Edinburgh and Glasgow Railway Station, and proceeded to Linlithgow. Visited the Palace, walked to Carriden, Blackness, and Hopetoun, and returned from Winchburgh at 4.5 p.m. Return tickets, 1s. 6d.

Among the plants collected were the following :—

Ranunculus aquatilis	Lychnis diurna
„ sceleratus	Moehringia trinervia
Berberis vulgaris	Ilex Aquifolium
Nasturtium palustre	Prunus Padus
Arabis hirsuta	Cratægus Oxyacantha
Cardamine sylvatica	Saxifraga granulata
Draba verna	Petroselinum sativum (not in flower)
Lepidium campestre	Myrrhis odorata
Sinapis arvensis	Lonicera Caprifolium (not in flower)
„ alba	Valeriana pyrenaica (Hopetoun)
Viola sylvatica	Valerianella olitoria
„ tricolor	
„ arvensis	
„ lutea	

Primula veris	Orchis mascula
Ligustrum vulgare (not in flower)	Triglochin palustre
Vinca minor	Eleocharis palustris
Symphytum officinale	„ uniglumis
Plantago maritima	„ multicaulis
„ Coronopus	Blysmus rufus
Chenopodium Bonus- Henricus	Alopecurus geniculatus
Quercus Robur	Asplenium Ruta-muraria
Salix fragilis, var. Rus- seliana	„ Filix-fœmina
„ alba	Polystichum aculeatum
„ viminalis	Lastrea Filix-mas
„ Smithiana	„ dilatata
Listera ovata (not in flower)	Botrychium Lunaria
	Jungermannia bidentata
	Agaricus campestris

### Cleghorn, Lanark, Cora Linn, Bonnington Falls.

*Saturday, 16th June 1855.*

Party of nearly 100 met at the Caledonian Railway Station at 7 a.m., and proceeded to Cleghorn Station. Return tickets, 2s. 6d. Walked by the road to Lanark, thence proceeded to Cora Linn and Bonnington Falls, and returned by the banks of the Mouse to Cleghorn, joining the train at 4.8 p.m. Mr. M'Kinley, the gardener at Bonnington, had made arrangements as to the guides. There were four guides, to whom we paid in all 6s. 8d., and to the woman at the gate 2s.

Among the plants collected were the following :—

Ranunculus auricomus	Montia fontana
Trollius europæus	Geranium sylvaticum
Aquilegia vulgaris	„ lucidum
Aconitum Napellus (not in flower)	Anthyllis Vulneraria
Cardamine amara	Vicia Orobus
Sisymbrium Thalianum	„ sylvatica (not in flower)
Viola palustris	Rubus saxatilis
Cerastium glomeratum	Pyrus Aucuparia

Saxifraga oppositifolia	Carex ampullacea
Galium boreale	Melica uniflora
Carduus heterophyllus (not in flower)	Briza media
Hieracium murorum	Asplenium Adiantum- nigrum
Vaccinium Vitis-Idæa (not in flower)	" vjride
Pyrola media? (not in flower)	" Trichomanes
Origanum vulgare (not in flower)	" Filix-fœmina
Salix viminalis	Cystopteris fragilis
Neottia Nidus-avis	Polystichum aculeatum
Orchis latifolia	Lastrea Filix-mas
Convallaria majalis	" dilatata
Eriophorum latifolium	Polypodium Dryopteris
Carex disticha	" Phegopteris
" paniculata	Equisetum arvense
" aquatilis	" umbrosum
" vulgaris	" sylvaticum
" glauca	" palustre
" præcox	" limosum
" panicea	" hyemale
" fulva	Bartramia fontana
" flava	Ramalina fraxinea
	Peltidea canina

**Newton, Dryburgh, Gladswood, Eildon Hills, Melrose,  
Hassendean, Minto Crag.**

*Saturday, 23rd June 1855.*

Party of about 100, including Mr. Christie of the School of Design and 15 of his pupils, met at the North British Railway Station at 7.30 a.m., and proceeded to Newton Station, thence walked to Dryburgh Abbey and along the banks of the Tweed by Gladswood to the Eildon Hills and Melrose. Visited the East and Middle Eildon Hills, ascending to the top of each. Return tickets 2s. 6d., besides 3d. at Dryburgh, 1d. at Ferry, and a few pence at Melrose. Messrs. Nichol and Sadler went to Hassendean and visited Minto Crag, where they got *Asplenium germanicum* (one specimen).



They also gathered :—

*Trollius europæus*  
*Berberis vulgaris*  
*Viola canina*  
*Lychnis Viscaria*  
*Sanguisorba officinalis*  
 (not in flower)

*Valeriana dioica*  
*Typha latifolia*  
*Carex paludosa*  
*Asplenium septentrionale*  
*Lycopodium Selago*  
*Sticta scrobiculata*

The chief plants gathered by the rest of the party were :—

*Berberis vulgaris*  
*Nasturtium palustre* ?  
*Arabis hirsuta*  
*Cochlearia officinalis* (walls  
 of Melrose Abbey)  
*Hesperis matronalis* (Glad-  
 wood)  
*Sisymbrium Thalianum*  
*Erysimum cheiranthoides*  
 (shore of Tweed near  
 Dryburgh)  
*Lepidium Smithii*  
*Stellaria nemorum*  
*Moehringia trinervia*  
*Malva moschata* (not in  
 flower)  
*Tilia grandifolia*  
*Geranium sanguineum*  
 „ *sylvaticum*  
 „ *molle*  
 „ *lucidum*  
*Euonymus europæus*  
*Staphylea pinnata*  
*Anthyllis Vulneraria*  
*Vicia sylvatica* (not in  
 flower)  
*Lathyrus pratensis*  
*Prunus Avium*  
 „ *Padus*  
*Rubus saxatilis*  
*Geum intermedium*  
*Fragaria elatior*  
*Potentilla reptans* (not in  
 flower)

*Rosa spinosissima*  
 „ *tomentosa*  
*Pyrus Aria*  
*Saxifraga umbrosa*  
*Sanicula europæa*  
*Galium boreale*  
*Valeriana dioica* (at foot  
 of Middle Eildon Hill)  
*Antennaria dioica*  
*Anthemis arvensis*  
*Matricaria Parthenium*  
*Doronicum Pardalianches*  
*Hieracium Pilosella*  
 „ *vulgatum*  
*Apargia hispida*  
*Vaccinium Vitis-Idæa*  
 „ *Myrtillus*  
*Erica cinerea*  
*Lysimachia nemorum*  
*Symphytum officinale*  
*Echium vulgare*  
*Verbascum Thapsus* (not  
 in flower)  
*Digitalis purpurea*  
*Lathræa Squamaria*  
*Mentha viridis*  
*Origanum vulgare*  
*Plantago media*  
*Rumex sanguineus*  
 „ *viridis*  
*Buxus sempervirens* (in  
 fruit)  
*Alnus glutinosa*

Salix fragilis, var. Rus-	Briza media
seliana	Poa nemoralis
„ cinerea	Nardus stricta
„ aquatica	Taxus baccata (drooping,
„ Caprea	at Dryburgh)
Populus alba	Allosorus crispus
Neottia Nidus-avis	Asplenium Adiantum-
Scirpus sylvaticus	nigrum
Carex disticha	„ Trichomanes
„ glauca	Polystichum aculeatum
„ pilulifera	Lastrea Oreopteris
„ panicea	Equisetum palustre
„ binervis	Lycopodium alpinum
„ fulva	Andreaea rupestris
Melica nutans	Trichostomum lanuginosum
„ uniflora	Grimmia ovata

**Falkland, Bishop Hill, West Lomond Hill, Glenvale,  
East Lomond Hill.**

*Saturday, 30th June 1855.*

Party of upwards of 100, including Mr. Christie and about 12 pupils of the School of Design, started by the train from North Bridge Station and Scotland Street Station at 6.30 a.m., and proceeded to Falkland Road Station. Return tickets, 2s.

Walked from Falkland Road Station to Falkland, where, through the kind attention of Mr. Barclay, breakfast was prepared. Mr. Howden, factor for Mr. Bruce, had arranged to allow the breakfast-table to be placed on the lawn in front of the old Palace. The party amounted to 114, including all our party and Mr. Christie's, also Mr. Barclay, the Sheriff-Clerk of Cupar, Mr. Howden, the Rev. Mr. M'Duff, minister of Falkland, Mr. Gulland, Mr. Cruikshank, the schoolmaster, and Mr. Laing, from Cupar. Dr. Balfour was chairman, and Mr. Barclay croupier. In front of the chairman was placed the huge tin kettle which had been used by the botanical party (of which Mr. Barclay was one) who visited Ben na Mac Dhu last year, and who slept for a night under the shelter-stone. The kettle

had an inscription on it to the following effect:—"Professor Balfour's Botanical Party to Ben na Muich Dhui, August 1854."

After partaking of a very substantial breakfast, the party, under the guidance of Mr. Howden, visited the old Palace with its large Hall, John Knox's pulpit. They then proceeded to the roof of the building, where they had an excellent view of the surrounding country. Visited the new church built by the late Mr. Tindal Bruce. Then walked to Falkland House, some visited the interior of the mansion. Thence proceeded towards the West Lomond Hill, at the foot of which lunch was provided by Mr. Barclay. After lunch the party went to the top of the hill, which is 1712 feet above the level of the sea. Had a fine view of Kinross-shire and Loch Leven. Descended into Glenvale, and walked along the side of the stream. Proceeded to Balo and by the south side of the East Lomond to the Falkland Road Station, where the party arrived about 6.30 p.m., thoroughly wet by a heavy thunderstorm which commenced between 3 and 4 p.m. and lasted all evening. Some visited the Bishop Hill. Returned to Edinburgh by the train passing Falkland Road at 7.12 and reaching Edinburgh about 9 p.m.

Among the plants gathered were the following:—

Papaver Argemone	Conium maculatum
Fumaria micrantha	Galium pusillum (in Glen-
Cardamine amara	vale)
Viola lutea	Solidago Virgaurea
Sagina subulata	Antennaria dioica
Geranium pusillum	Centaurea Cyanus
Oxytropis Halleri (on	Hieracium atratum
Bishop Hill)	Leontodon Taraxacum
Saxifraga umbrosa	" palustris
" hypnoides	Vaccinium Vitis-Idæa
Chrysosplenium alterni-	Trientalis europæa (in
folium	great profusion in the
Sedum villosum	woods and on the hill)
Hippuris vulgaris	Myosotis repens
Epilobium angustifolium	Solanum Dulcamara
" alsinifolium	Veronica scutellata
(latter abundant on West	Littorella lacustris
Lomond Hill)	

Chenopodium Bonus-Henricus	Blechnum boreale
Polygonum viviparum (abundant)	Asplenium Adiantum-nigrum
Salix cinerea	„ Ruta-muraria (old Palace)
„ aquatica	„ Filix-fœmina
„ repens	Cystopteris fragilis
„ fusca	Polystichum aculeatum
Empetrum nigrum	Lastrea Oreopteris
Listera cordata (in great profusion)	„ Filix-mas
Orchis mascula	„ dilatata
„ latifolia	Polypodium vulgare
„ maculata	„ Dryopteris
Gymnadenia conopsea	„ Phegopteris
Habenaria bifolia	Botrychium Lunaria
Juncus supinus	Equisetum arvense
Luzula multiflora	„ umbrosum
„ congesta	„ sylvaticum
Potamogeton oblongus	„ palustre
„ heterophyllus	„ limosum
Eleocharis palustris	Lycopodium Selago
Scirpus pauciflorus	„ clavatum
Carex dioica	„ alpinum
„ pulicaris	„ selaginoides
„ stellulata	Pilularia globulifera
„ curta	Andreæa Rothii
„ ovalis	„ rupestris
„ vulgaris	Bartramia fontana
„ glauca	„ pomiformis
„ pilulifera	Bryum punctatum
„ præcox	Hypnum stramineum
„ panicea	Polytrichum commune
„ binervis	„ alpinum
„ fulva	Sphagnum acutifolium
„ flava	„ cymbifolium
„ ampullacea	„ compactum
„ vesicaria (in tarn on the hill)	Splachnum sphaericum
Aira flexuosa	Trichostomum canescens
Briza media	„ lanuginosum
Poa nemoralis	Cetraria glauca
„ montana	Cladonia rangiferina
Nardus stricta	Peltidea canina
Pteris aquilina	Scyphophorus pyxidatus
Allosorus crispus	Sphaerophoron coralloides

**North Berwick, Dirleton, Gullan, Luffness, Aberlady,  
Gosford, Longniddry.**

*Saturday, 7th July 1855.*

A party of about 60 or 70 met at the North British Railway Station and proceeded to North Berwick, thence walked by the Links to Dirleton and its Castle, then to Gullan and Gullan Links, Luffness, Aberlady, Gosford, and Longniddry, returning by the train reaching Edinburgh at 7.50 p.m. Return tickets, 1s. 6d. Day remarkably fine, and many good plants procured.

Among others, the following:—

Papaver Argemone	Scrophularia vernalis (Gos-
Alyssum calycinum (Dirleton)	ford)
Reseda lutea	Veronica Anagallis
Viola canina (Dirleton)	Utricularia vulgaris
Silene noctiflora	Calamintha Acinos
Geranium pusillum	Stachys ambigua
Trifolium fragiferum	Lamium intermedium (Luff-
Hippuris vulgaris	ness)
Conium maculatum	Littorella lacustris (Gullan)
Smyrniolum Olusatrum	Beta maritima
Galium Mollugo	Salicornia herbacea
Centranthus ruber	Hippophaë rhamnoides
Pulicaria dysenterica	Listera ovata
Crepis biennis (Luffness)	Epipactis latifolia
Thrinchia hirta	Habenaria viridis
Campanula glomerata	Sparganium ramosum
„ Trachelium (Luff-	Potamogeton oblongus
ness)	„ rufescens
Anagallis arvensis	Ruppia maritima (Luffness)
„ tenella	Scirpus pauciflorus
Erythraea pulchella	Carex incurva (near Long-
Polemonium caeruleum	niddry)
(Luffness)	Carex disticha
Cynoglossum officinale	„ teretiuscula
Asperugo procumbens (Luff-	„ paniculata
ness)	„ vulpina
Solanum Dulcamara	„ distans
Hyoxyamus niger (abundant	„ extensa
near Luffness)	

Carex Oederi (abundant in  
Gullan Links between  
the marshy ground and  
the sand hills)  
Carex hirta  
Phleum arenarium  
Trisetum flavescens  
Triodia decumbens

Sclerochloa maritima  
Lepturus filiformis  
Botrychium Lunaria  
Equisetum variegatum  
Lycopodium selaginoides  
Chara hispida  
„ vulgaris

**Dunfermline, Knock Hill, Black Devon, Saline, Rumbling  
Bridge, Loch Leven, Benarty, Bishop Hill.**

*Saturday, 14th July 1855.*

Party of 60-70 met at the Edinburgh, Perth, and Dundee Railway Station at 6.30 a.m. and proceeded to Dunfermline. Return tickets, 2s. Breakfasted at Melvie's New Inn, Dunfermline, about 9 a.m. for 1s. 3d. each. Visited the Abbey—where two artists who accompanied the party remained to take measurements. Walked towards Cleghorn and Knock Hill, crossed over the western side of the hill and visited the banks of the Black Devon, and returned by the pass between the two Saline Hills to Dunfermline, which was reached about 6 p.m. Returned by train at 6.40 p.m., reaching Edinburgh about 9 p.m. Some of the party went the day previously to Loch Leven, Benarty, and met us, others went to Rumbling Bridge and joined us in the evening.

Among the plants gathered by the various parties were the following:—

Ranunculus hederaceus  
„ Flammula  
„ reptans (Loch  
Fittie and Loch Leven)  
Trollius europæus  
Nuphar luteum  
Nymphæa alba  
Nasturtium palustre  
Viola lutea  
Radiola Millegrana (near  
Loch Leven)

Linum usitatissimum  
Trifolium medium  
„ striatum  
Oxytropis Halleri (Bishop  
Hill)  
Vicia sylvatica  
Rubus saxatilis  
Saxifraga hypnoides  
Sedum villosum  
Sempervivum tectorum

Myriophyllum spicatum	Habenaria bifolia
"    alterniflorum	"    chlorantha
Callitriche platycarpa	Narthecium ossifragum
Helosciadium repens	Paris quadrifolia (near Rum- bling Bridge)
Cicuta virosa	Sparganium ramosum
Carum Carui	Alisma ranunculoides (Loch Leven)
Meum athamanticum	Potamogeton natans
Viburnum Opulus	"    oblongus
Galium boreale (Bishop Hill)	"    perfoliatus (Loch Leven)
"    Witheringii	"    acutifolius
"    uliginosum	"    pusillus
Centranthus ruber	"    pectinatus
Chrysanthemum segetum	Scirpus setaceus
Carduus setosus	"    lacustris
Vaccinium Oxycoccus	"    sylvaticus
Erica Tetralix	Eriophorum angustifolium
"    cinerea	Carex paniculata
Pyrola rotundifolia (Black Devon)	"    sylvatica
"    media	"    Ederi
"    minor	"    filiformis
Veronica scutellata	Molinia caerulea
Calamintha Clinopodium	Poa nemoralis
Galeopsis versicolor	"    montana
Littorella lacustris	Festuca bromoides
Polygonum viviparum	Allosorus crispus (Saline Hills)
Rumex alpinus (near Rum bling Bridge)	Polypodium Dryopteris
Euphorbia Cyparissias (near Rumbling Bridge)	"    Phegopteris
Myrica Gale	Equisetum umbrosum
Populus tremula	Lycopodium Selago
Listera cordata	"    clavatum
"    ovata	"    selaginoides
Gymnadenia conopsea	
"    albida	

### Ayton, Eyemouth, St. Abb's Head.

Friday, 20th July 1855.

Party consisting of Dr. Balfour, Zerub Baillie, George Blackie,  
Joseph Bell, M. Cockram, W. H. Dewar, Alex. Dickson, George



Dods, Wm. Drysdale, E. W. Dubuc, J. A. Forbes, William Forbes, Adolphus Graham, William Grey, James Hay, J. Hector, A. B. Nieser, Joseph Perry, Wm. D. Singer, Francis Skae, V. E. Walker, M. Whitfield, M. Yellowlees, John A. Yule, met at the North British Railway Station at 4 p.m., and proceeded to Ayton. Mr. Hector had preceded us for the purpose of examining geologically Siccars Point and other rocks near the sea. He met the party near Eyemouth. Return tickets, 2s. 6d.

On reaching Ayton the party were met by the gardener to Mr. Mitchell Innes and conducted to Ayton Castle, where strawberries and cream were provided on the grass. After partaking of them the party visited the Castle under the direction of Mr. Mitchell Innes. The party then walked through the grounds of Ayton Castle and Netherbyres under the guidance of the gardener, and reached Eyemouth between 8 and 9 p.m. They were accommodated at Mr. William Paterson's Ship Inn; some had beds in other places.

*Saturday, 21st July 1855.*

Breakfasted at 7 a.m. and then walked by the coast to St. Abb's Head, and reached the shore near Fast Castle about 3 in the afternoon. Observed the remarkable construction of the lower Silurian rocks—the old sandstone cliffs with the trap. Day was delightful, although oppressively hot.

Among the plants gathered during the trip were the following:—

Thalictrum minus	Lychnis Githago
„ flexuosum(Nether-	Cerastium tetrandrum
byres)	Alsine verna (St. Abb's
Ranunculus aquatilis	Head)
„ hirsutus (near	Geranium pratense
Dunlow Farm)	Acer campestre(Netherbyres)
Glaucium luteum	Astragalus hypoglottis
Fumaria capreolata	Vicia sylvatica
Sinapis alba	Agrimonia Eupatoria
Cakile maritima	Sedum Rhodiola
Dianthus deltoides	Epilobium angustifolium
Silene maritima	Conium maculatum



<i>Æthusa Cynapium</i>	<i>Listera ovata</i> (Netherbyres)
<i>Haloscias scoticum</i>	<i>Gymnadenia conopsea</i>
<i>Viburnum Opulus</i> (Netherbyres)	<i>Blysmus rufus</i>
<i>Matricaria Parthenium</i>	<i>Carex disticha</i>
<i>Carlina vulgaris</i>	„ <i>arenaria</i>
<i>Hieracium prenanthoides</i>	„ <i>vulpina</i>
<i>Tragopogon minor</i>	„ <i>ovalis</i>
<i>Anagallis arvensis</i>	<i>Triticum repens</i>
<i>Mertensia maritima</i>	„ <i>laxum</i>
<i>Solanum Dulcamara</i>	„ <i>juncum</i>
<i>Linaria vulgaris</i>	<i>Asplenium Adiantum-nigrum</i>
<i>Atriplex Babingtonii</i>	„ <i>Trichomanes</i>
<i>Neottia Nidus-avis</i> (Netherbyres)	<i>Botrychium Lunaria</i>
	<i>Ramalina scopulorum</i>

The total expenses at Eyemouth, including tea, beds, breakfast, and sandwiches, were 5s., which added to the railway fare makes the expense of the trip 7s. 6d.

### Ben Lawers.

*Friday, 3rd August 1855.*

A party consisting of J. H. Balfour, R. K. Greville, Thomas Barclay, Joseph Bell, James S. Candlish, P. Neill Fraser, James Gilchrist, James Hector, Charles W. Hope, J. Augustus Metcalfe, James Miller, William Nichol, William Ogle, Andrew Pow, James C. Rattray, William D. Singer, Mohamed Ali Soubki, Hugh G. Stewart, C. J. J. Terrot, V. E. D. Walker, left Edinburgh on Friday, 3rd August, at 6.30 a.m., and reached Stirling at 8.20. Met Dr. Gilchrist and Mr. Bell there. Nineteen breakfasted in Campbell's Royal Hotel. Some of the party gathered *Lactuca virosa* and *Linaria repens* at Stirling Castle. After breakfast, left in a coach, hired for the purpose, which held six inside and thirteen out.

On reaching Callander visited Bracklinn Bridge, where we found :—

<i>Vicia sylvatica</i>	<i>Hieracium strictum</i>
<i>Hieracium denticulatum</i>	<i>Polypodium Dryopteris</i>
„ <i>prenanthoides</i>	<i>Equisetum umbrosum</i>

Dr. Greville gathered *Diatomella Balfouriana* and other Diatomaceæ.

Changed horses at Callander at Menzies' Inn—Menzies had been a keeper at Braemar when Greville, Brand, and I visited that part of the country in 1847. Met Mr. Hill and his son at Callander. Proceeded by the Pass of Leny to Loch Lubnaig. Gathered :—

Nuphar luteum	Nymphæa alba
„ pumilum	Lysimachia vulgaris

Again changed horses at King's House, near Lochearnhead. Walked from Lochearnhead to the summit of the Pass. On the way gathered many good mosses and diatoms :—

Bryum elongatum	Orthotrichum rupestre
Didymodon capillaceum	Blindia acuta
Neckera crispa	Hypnum myosuroides
Bryum alpinum	Sticta fuliginosa (Bracklinn
„ nutans	Bridge)
„ julaceum (in abundant fructification)	

Reached Mrs. M'Tavish's Inn at Killin at 7 p.m., and were all comfortably accommodated. Met Mr. Rattray, who joined the party. Met also a Mr. Young, who was making a collection of ferns; he was particularly interested in the ferns of Wales, and was engaged in publishing a work on the subject, illustrated by specimens.

*Saturday, 4th August 1855*

Party numbering 21, including Mr. Young from Wales, proceeded at 8 a.m. to Craig Chailliach.

In Finlarig woods gathered *Linnæa borealis* and *Haabenaria chlorantha*. Noticed particularly Watson's regions in ascending, characterised by *Rubus Chamæmorus*, *Calluna vulgaris*, *Erica Tetralix*, *Pteris aquilina*.

On reaching the foot of the cleft on Craig Chailliach, gathered *Polystichum Lonchitis*, *Polystichum lobatum* and varieties.

Ascended the hills and went along the foot of the high cliffs till we reached a deep ravine by which we ascended to the

summit. Had a fine view although the day was rather misty now and then, though beautiful glimpses were seen of the surrounding scenery. On the Ben Chailliach cliffs were gathered all the ordinary alpine plants. Some of the rarer species seen were :—

<i>Draba incana</i>	<i>Euphrasia officinalis</i> , var.
„ <i>verna</i> , var. <i>inflata</i>	<i>gracilis</i>
<i>Cochlearia officinalis</i>	<i>Oxyria reniformis</i>
„ <i>alpina</i>	<i>Salix nigricans</i> , var. <i>rupestris</i>
<i>Cerastium alpinum</i>	<i>Carex atrata</i>
<i>Sagina apetala</i>	„ <i>stictocarpa</i>
„ <i>subulata</i>	„ <i>capillaris</i>
<i>Potentilla alpestris</i>	<i>Sesleria caerulea</i>
<i>Saxifraga nivalis</i>	<i>Poa alpina vivipara</i>
<i>Epilobium alpinum</i>	„ <i>Balfourii</i> and vars.
<i>Vaccinium uliginosum</i>	<i>Botrychium Lunaria</i>
<i>Armeria maritima</i>	

The ravine at the end of the cliffs was very productive of alpine plants :—

<i>Alsine rubella</i>	<i>Veronica saxatilis</i>
<i>Dryas octopetala</i>	<i>Juncus biglumis</i>
<i>Potentilla alpestris</i>	<i>Luzula spicata</i>

Rain came on and lasted for about an hour. Walked along the cliffs towards Ben-y-Cruiach Ben, and ascended the hill—reached the summit about 3 p.m. Gathered :—

<i>Sibbaldia procumbens</i>	<i>Carex atrata</i>
<i>Saussurea alpina</i>	„ <i>pulla</i>

Dr. Greville saw a golden eagle to-day, and Messrs. Metcalfe and Walker saw two eagles with white tail feathers.

Reached the inn about 6 p.m.

Craig Chailliach 2570 feet, Ben-y-Cruiach Ben 3070 feet above Killin.

*Monday, 6th August 1855.*

Twenty started this morning at 7.30 a.m. for Ben Lawers. Morning tolerable, but the hills misty. In the course of the day

the mist became very thick and rain fell in quantity. Walked to the  $4\frac{3}{4}$  mile-stone from Killin, and then began to ascend the hill. Proceeded first in the direction of Loch-na-gat, gathering on the way :—

Rubus Chamæmorus  
Cornus suecica

Eriophorum latifolium  
Splachnum sphæricum

Visited the rocks above Loch-na-gat, and then walked round the corrie in the midst of mist—the effects of the late storms seen in the debris on the hills—appearance of the effects of water-spouts. Gathered :—

Erigeron alpinus  
Myosotis suaveolens  
Juncus castaneus  
„ biglumis

Poa Balfourii  
Woodsia hyperborea  
Polypodium alpestre

and all the ordinary alpine plants. Abundance of *Cystopteris montana* on rocks to the west of Loch-na-gat.

Ascended to the top of Ben Lawers, which was reached about 3 p.m. Near the summit got *Draba rupestris*, *Cetraria islandica*. The wind on the summit was very strong, accompanied with mist and rain. Descended from the summit by the aid of the compass, taking a S.W. direction. Reached the glen leading to Glen Lyon, and thence proceeded across the flanks of Catyaheaman to Loch Tay. Reached the inn about 6.30 p.m. thoroughly drenched. On our return home at night found Mr. Hugh Macmillan, who had arrived from Aberfeldy in the morning with the view of ascending Ben Lawers.

*Peltidea venosa* is abundant on walls near Killin.

Tuesday, 7th August 1855.

This morning was wet, misty, and unpromising, and the party found it impossible to ascend any of the hills. Dr. Greville, on account of the weather, left for Edinburgh at 1 o'clock by the coach passing through Stirling. He took with him my packet of dried plants, including *Cystopteris montana*, also some roots of it as well as of *Polypodium alpestre*, *Woodsia hyperborea* and *Draba rupestris*.

About 10 a.m. some of the party visited the Macnab Burying Ground and saw the peculiar fir in which a branch from another tree has fallen into a cleft and become grafted; the branch now hangs down from the plant to which it is attached.

Some of the party then walked along the south side of Loch Tay and gathered numerous ferns in a fine state :—

Asplenium viride	Polypodium Dryopteris
„ Trichomanes	„ Phegopteris
(very large)	

Proceeded about six miles along the shore to a ferry, there crossed the loch, landing between one and two miles west of Lawers Inn. Returned by the road to Killin, visiting the upper part of Loch Tay and gathering :—

Arctium majus	Carex vesicaria
Calamintha Clinopodium	Parmelia caperata
Salix phylicifolia	

Mr. Nichol attempted the ascent of Meal Ghaordie, but failed on account of the mist. Mr. Macmillan left for Aberfeldy by coach.

*Wednesday, 8th August 1855.*

The morning was doubtful, mist hung over the hills, and there was a calm in the air. The wind, however, ultimately assumed a north-westerly direction, and part of the mist was cleared away, but the higher summits were covered all day. Captain Terrot, Mr. Rattray, and Mr. Singer left for the South. There remained, therefore, 16 of our party, of whom 13 went to Meal Ghaordie, while three remained fishing in the Dochart, and caught two dozen trout. The botanical party started about 7.30 a.m. and walked along the banks of the Lochay. At Lochay Inn met Mr. George Mann, who had been successful in getting *Cystopteris montana* on Chorrach Uachdar. Walked about three miles up the Lochay to a farm, near which was seen some common metamorphic limestone with mica slate alternating with it. At the lower part of the hill picked :—

Corydalis claviculata	Malaxis paludosa
Drosera anglica	Gymnadenia albida
Meum athamanticum	

Ascended by the south-eastern side of the hill, gathering :—

Rubus Chamaemorus  
Cornus suecica

Vaccinium uliginosum  
Tofieldia palustris

Then ascended to the summit amidst thick mist, gathering a number of alpine plants, especially mosses and lichens. Descended to the northern side of the hill, and afterwards examined the rocks on the southern side.

Among the plants gathered were (on the northern side by Mr. Nichol) :—

Salix Lapponum  
" Myrsinites

Salix arbutifolia  
Rhynchospora alba

Also gathered :—

Silene acaulis  
Cherleria sedoides  
Sibbaldia procumbens  
Epilobium alpinum  
Gnaphalium supinum

Poa Balfourii  
Allosorus crispus  
Polypodium alpestre (in fruit  
on southern rocks)

Salix venulosa  
" herbacea  
" reticulata

Cystopteris dentata  
Polystichum Lonchitis  
Lastrea dilatata

Juncus trifidus  
" biglumis  
" triglumis

" " var. collina  
Splachnum mnioides  
Sphaerophoron coralloides  
Stereocaulon paschale

Carex pulla (some specimens  
very large on northern  
side by Mr. Nichol)

Mr. Hector, by the aneroid, made height of hill 3124 feet, and height of *Pteris* about 1200 or 1300 feet above Killin.

Party returned to the inn about 6.30 p.m.

*Thursday, 9th August 1855.*

The morning was promising although there was still mist on the hills. A party of ten started for Ben Lawers about 7.30 a.m. The remainder went fishing and geologising. Mr. Hector examined the limestone quarry up the Lochay. The party to Ben Lawers walked by the road for about three miles, and then

turned up the hill. Ascended the back of the hill called Ben y Lassigh. By the time the party reached the summit there was still thick mist. Visited the cliffs on the west side of Ben Lawers and found abundance of:—

Draba rupestris (which was also found lower down)	Sedum villosum (which ex- tended to near the summit)
Alsine rubella	Erigeron alpinus
	Gentiana nivalis

Ascended the south side of Ben Lawers and saw abundance of *Saxifraga cernua*, some in flower, some in fruit, some barren. Then reached the summit of the hill, which was gained about 2 p.m., where we had a splendid view of the country around. The view was very extensive—Ben Lomond, Ben More, Ben na Mac Dhu, Ben Nevis, Ben Cruachan, and Schiehallion were seen.

Descended from the summit in the direction of Loch-na-gat. Gathered:—

Cerastium alpinum and many alpine plants	Juncus castaneus
Alsine rubella	Phleum commutatum
	Cystopteris montana

The sides of the hills were furrowed with the effects of the rain of the 3rd August, apparently as if waterspouts had burst on the hills. Vast masses of debris were carried down to the valleys below, and deep furrows were made in the hill.

Returned to the inn about 7 p.m.

*Friday, 10th August 1855.*

Many of the party were disposed to go directly to Inverarnan to-day, and accordingly Mr. Barclay, Dr. Ogle, Messrs. Fraser, Candlish, Stewart, Walker, and Dr. Soubki went by coach to Inverarnan, carrying the baggage of the party. They left Killin about 8 a.m. The remainder, viz. Dr. Balfour, Messrs. Hope, Nichol, Pow, Bell, Miller, Hector, Metcalfe, and Dr. Gilchrist, after settling the bill at Killin, proceeded on foot up Glen Lochay as far as the slated farm-house, where they were hospitably entertained with milk and cakes. The morning was



dull, and there was some drizzling rain on the high grounds, while the tops of the hills were covered with heavy and thick mist. On leaving the farm-house the party walked directly up the hill opposite the house, and finally reached the mountain called Chorrach Uachdar. The cliffs of this hill were carefully examined, and many alpine plants were seen, such as:—

Sibbaldia procumbens	Oxyria reniformis
Saxifraga oppositifolia	Salix herbacea
„ stellaris	„ reticulata
Epilobium alsinifolium	Juncus biglumis
„ alpinum	„ triglumis
Gnaphalium supinum	

In a ravine on the hill there was abundance of *Cystopteris montana*; the spot had been apparently recently visited. Probably this was the spot where the plant was gathered by Mr. George Mann. In a spot of difficult access, Mr. Nichol gathered a specimen with a stalk 7 inches long and blade  $3\frac{1}{2}$  inches, making a total for the frond of  $10\frac{1}{2}$  inches. On Chorrach Uachdar there is a large quantity of the *Cystopteris* in different spots, some of them not likely to be reached except by good alpine climbers. Near the summit of this high hill there was abundance of *Tussilago Farfara* as well as *Bellis perennis*.

On leaving the cliffs, which are about 2400 feet above the level of the sea, the party ascended to the top of the hill (probably 1000 feet more) amidst thick mist; they required to guide themselves in their descent by the compass, directing their course S.W. On their way down *Arctostaphylos Uva-ursi* was gathered, also *Hieracium boreale*.

The party reached the Dochart, across which they waded. In Loch Dochart *Lobelia Dortmanna* was picked.

They then proceeded to Crianlarich, where they had refreshments, and then walked amidst drizzling rain and mist to Inverarnan, which was reached (M'Lellan's Inn) about 8.30 p.m., after walking for twelve hours, and covering 32 or 34 miles, many of them over lofty hills. Two of the party (Fraser and Candlish), who had gone by coach in the morning to Inverarnan, and thence to Tarbet by steamer, and walked back, gathered on the way *Osmunda regalis* and *Lythrum Salicaria*.



The party at Inverarnan to the number of 14 were most comfortably accommodated at this inn.

The Lochay Inn (John Cameron's), close to the bridge over the Lochay, and about half a mile from Killin, is infinitely superior to M'Tavish's at Killin, and ought to be encouraged.

*Saturday, 11th August 1855.*

The morning was misty and drizzly as on former days. The mist reached to the very bottom of the mountains and completely obscured the view of the beautiful scenery on Loch Lomond. After breakfast we left by the boat at 7.45 a.m. and reached Balloch, whence we proceeded by train to Bowling, and then to Glasgow, reached about 12.45, and Edinburgh reached at 2.45 p.m., thus ending the highland excursion for the season.

---

#### EXCURSIONS IN 1856.

##### Corstorphine, Almond Bridge, Cramond, Granton.

*Saturday, 10th May 1856.*

About 120 pupils met at the Edinburgh and Glasgow Railway Station at 12 noon and proceeded by train at 12.15 to Corstorphine Station (tickets 3d. each), thence walked over the hill to the Almond Bridge, and by the banks of the river to Cramond and along the shore to Granton.

Among the plants gathered were:—

Anemone nemorosa  
Ranunculus Ficaria  
Caltha palustris  
Cochlearia officinalis  
Capsella Bursa-pastoris  
Viola hirta  
" sylvatica  
Lychnis diurna  
Stellaria media  
" Holostea

Geranium lucidum  
" molle  
Prunus communis  
" Avium  
Fragaria vesca  
Potentilla Fragariastrum  
Saxifraga granulata  
Ribes Grossularia  
" alpinum  
" rubrum

Galium Cruciata  
Tussilago Farfara  
Petasites vulgaris  
Myosotis arvensis  
Linaria Cymbalaria  
Nepeta Glechoma  
Lamium purpureum  
" album  
Mercurialis perennis  
Ulmus montana (in fruit)  
Betula alba  
Salix (various)

Orchis mascula  
Endymion natus  
Luzula sylvatica  
Carex vulgaris  
Taxus baccata  
Pinus sylvestris  
Asplenium Trichomanes  
" Ruta-muraria  
Cystopteris fragilis  
Lastrea Filix-mas  
Equisetum arvense

Some of the party visited Colinton and gathered :—

Helleborus foetidus  
Berberis vulgaris

Doronicum Paradalichne  
Arum maculatum

### Gorebridge, Arniston, Dalhousie, Dalkeith.

*Saturday, 17th May 1856.*

Party of 110 met at the North British Railway Station at 11.20 and proceeded to Gorebridge, thence walked to Arniston, Dalhousie, and Dalkeith Station, returning about 8 p.m. Return tickets, 1s. The day was very showery.

Among the plants gathered were the following :—

Anemone nemorosa  
Ranunculus auricomus  
" Ficaria  
Aconitum Napellus (in leaf)  
Barbarea vulgaris  
Viola sylvatica  
Stellaria nemorosa  
Moeblingia trinervia  
Oxalis Acetosella  
Sarrothamnus scoparius  
Lathyrus macrorrhizus  
Prunus communis  
" domestica

Prunus Avium  
" Padus  
Geum urbanum  
" rivale  
Chrysosplenium oppositifolium  
" alternifolium  
Ribes Grossularia  
" alpinum  
Myrrhis odorata  
Adoxa Moschatellina  
Galium Cruciata

Asperula odorata	Salix Russeliana
Valeriana pyrenaica (not in flower)	„ Caprea
Petasites vulgaris	Neottia Nidus-avis
Doronicum plantagineum (not in flower)	Orchis mascula
Primula vulgaris	Galanthus nivalis (in fruit)
„ veris	Allium ursinum
Fraxinus excelsior	Arum maculatum
Vinca minor	Carex vulgaris
Pulmonaria officinalis	Alopecurus pratensis
Myosotis sylvatica	Pinus sylvestris
Lathræa Squamaria (abundant)	Equisetum Telmateia
Lamium purpureum	„ arvense
„ album	„ limosum
Buxus sempervirens	Polypodium vulgare
Ulmus montana	„ Phegopteris
Fagus sylvatica	Xyloma acerinum
	Polyporus betulinus ?

### Burntisland, Starly Burn, Aberdour.

*Saturday, 24th May 1856.*

Party of about 90 proceeded by train at 9.45 a.m. to Granton, thence to Burntisland. Return tickets, 9d. From Burntisland the party walked by the shore to Starly Burn and Aberdour, and returned by the boat leaving Burntisland at 5 p.m.

Among the interesting plants gathered were the following :—

Ranunculus auricomus	Acer Pseudo-platanus
Cheiranthus Cheiri	Geranium sanguineum
Arabis hirsuta	„ phæum
Cochlearia danica (Island)	Medicago maculata
Sisymbrium Thalianum	Anthyllis Vulneraria
Lepidium Smithii	Vicia hirsuta
Thlaspi arvense	„ lathyroides
Helianthemum vulgare	Spiræa Filipendula
Viola sylvatica	Pyrus Malus
„ tricolor, var. arvensis	Saxifraga granulata
„ lutea	Myrrhis odorata

<i>Æthusa Cynapium</i>	<i>Scolopendrium vulgare</i>
<i>Asperula taurina</i> (near Burntisland)	<i>Botrychium Lunaria</i>
<i>Valerianella olitoria</i>	<i>Hypnum commutatum</i> (en- crusted with carbonate of lime)
<i>Leontodon lævigatus</i>	<i>Fucus ceranoides</i> (an allowed form of <i>Fucus</i> <i>vesiculosus</i> , fresh - water shore at Aberdour where it joins the sea at Starly Burn)
<i>Primula caulescens</i>	<i>Exidia Auricula-Judæ</i> (on an elder near Aberdour Castle, Mr. Park, in large quantity)
„ <i>elatior</i>	
<i>Anchusa sempervirens</i>	
<i>Myosotis collina</i>	
<i>Solanum Dulcamara</i>	
<i>Salvia Verbenaca</i>	
<i>Lamium incisum</i>	
<i>Asarum europæum</i>	
<i>Ruscus aculeatus</i>	

**Penicuik, Auchendinny, Roslin.**

*Saturday, 31st May 1856.*

Party of about 80 met at the North British Railway Station at 8.40 a.m. and proceeded to Penicuik, then walked to Auchendinny and Roslin by banks of the Esk. Tickets to Penicuik and return from Roslin, 1s. 3d. each.

Among the plants collected were the following :—

<i>Anemone nemorosa</i>	<i>Montia fontana</i>
<i>Ranunculus auricomus</i>	<i>Geranium sylvaticum</i>
<i>Trollius europæus</i>	„ <i>molle</i>
<i>Aquilegia vulgaris</i> (Auchen- dinny)	<i>Oxalis Acetosella</i> (pink)
<i>Aconitum Napellus</i> (Auchen- dinny, not in flower)	<i>Prunus Padus</i>
<i>Cardamine amara</i>	<i>Pyrus Aucuparia</i>
„ <i>hirsuta</i>	„ <i>Malus</i>
„ <i>sylvatica</i>	<i>Saxifraga granulata</i>
<i>Viola palustris</i>	<i>Chrysosplenium alterni- folium</i>
<i>Cerastium glomeratum</i>	<i>Ribes Grossularia</i>
<i>Stellaria nemorum</i>	„ <i>rubrum</i>
„ <i>uliginosa</i>	„ <i>nigrum</i>
<i>Moehringia trinervia</i>	<i>Sanicula europæa</i>
	<i>Myrrhis odorata</i>

Adoxa Moschatellina	Polypodium Dryopteris
Myosotis versicolor	„ Phegopteris
Veronica agrestis	Equisetum maximum
„ arvensis	„ arvense
„ montana	„ umbrosum
Betula glutinosa	(Auchendinny and Penicuik)
Salix fragilis	„ sylvaticum
„ cinerea	„ palustre
„ Caprea	„ limosum
Neottia Nidus-avis	„ hyemale
Orchis mascula	Bartramia fontana
Luzula pilosa	Agaricus fascicularis
Carex præcox	Morchella esculenta
Melica uniflora	
Polystichum aculeatum	

**Mid-Calder, Meadowbank, Dalmahoy Hills,  
Ravelrig, Currie.**

*Saturday, 7th June 1856.*

Party of 80 met at the Caledonian Railway Station at 9.35 a.m. and proceeded to Mid-Calder, then walked to Meadowbank, Dalmahoy Hills, Ravelrig, Water of Leith, and Currie, returning from the latter place at 5.36 p.m. Return third-class tickets, 8d. Morning good, but afternoon very wet.

Among the plants collected were the following :—

Trollius europæus	Prunus insititia
Meconopsis cambrica	„ domestica
Corydalis claviculata	Geum intermedium
Draba verna	Saxifraga hypnoides
Sisymbrium Thalianum	Myrrhis odorata
Viola palustris	Linnaea borealis
„ sylvatica	Leontodon palustris
„ canina	Vaccinium Myrtillus
„ tricolor	Pyrola minor
„ lutea	Trientalis europæa
Geranium sylvaticum	Anchusa sempervirens
„ columbinum	Myosotis versicolor

<i>Scrophularia vernalis</i> (Meadowbank)	<i>Polypodium Phegopteris</i>
<i>Salix cinerea</i>	<i>Botrychium Lunaria</i>
„ <i>aquatica</i>	<i>Equisetum arvense</i>
„ <i>Caprea</i>	„ <i>sylvaticum</i>
<i>Corallorrhiza innata</i>	„ <i>palustre</i>
<i>Listera ovata</i>	„ <i>limosum</i>
<i>Orchis mascula</i>	<i>Weissia verticillata</i> (at Currie)
„ <i>latifolia</i>	<i>Tortula papillosa</i> (at Balerno)
<i>Narcissus poeticus</i>	<i>Sticta crocata</i> (and other lichens, Dalmahoy)
<i>Allium ursinum</i>	<i>Sticta scrobiculata</i>
<i>Tulipa sylvestris</i>	<i>Lecanora tartarea</i>
<i>Arum maculatum</i>	<i>Usnea barbata</i>
<i>Scirpus cespitosus</i>	<i>Parmelia pulverulenta</i>
<i>Carex vulgaris</i>	„ <i>pallescens</i>
„ <i>glauc</i>	
„ <i>binervis</i>	
<i>Pinus sylvestris</i>	

### Cockburnspath, Dunglass Dene, Pease Dene.

*Saturday, 21st June 1856.*

Party of between 80 and 90 met at the North British Railway Station at 8 a.m. and proceeded to Cockburnspath, visited Dunglass Dene, stones in the neighbourhood, and Pease Dene, returning by train passing Cockburnspath at 6.3, and reaching Edinburgh about 8 p.m. Return tickets, 2s.

Among the plants gathered were the following :—

<i>Ranunculus hederaceus</i>	<i>Vicia sepium</i>
<i>Silene maritima</i>	„ <i>sativa</i>
<i>Stellaria uliginosa</i>	„ <i>lathyroides</i>
<i>Geranium phæum</i>	<i>Chærophylloides temulum</i>
„ <i>sylvaticum</i>	<i>Ænanthe crocata</i>
<i>Trifolium arvense</i>	<i>Valerianella olitoria</i>
„ <i>striatum</i>	<i>Carduus acanthoides</i>
<i>Anthyllis Vulneraria</i>	<i>Pyrola minor</i>
<i>Astragalus hypoglottis</i>	<i>Vinca major</i>
O	

Vinca minor	Delesseria sanguinea
Anchusa sempervirens	„ limosa
Hyoscyamus niger	„ alata
Veronica montana	Odonthalia dentata
Lamium Galeobdolon	Alaria esculenta
Chenopodium Bonus-	Ptilota plumosa
Henricus	Halidrys siliquosa
Neottia Nidus-avis.	Desmarestia aculeata
Carex pendula	Laminaria saccharina
Briza media	„ digitata
Polystichum aculeatum	Polysiphonia fastigiata
„ angulare	Chylocladia articulata
Equisetum Telmateia	Corallina officinalis
„ arvense	Rhodymenia palmata
„ palustre	Hypnea purpurascens
„ limosum	Enteromorpha intestinalis
Weissia verticillata	Polyporus versicolor
Plocamium coccineum	

### North Queensferry, Inverkeithing, St. Davids.

*Saturday, 28th June 1856.*

Party of 50-60 met at Granton Pier at 6 a.m. and proceeded by steamboat to North Queensferry, thence walked to Inverkeithing and St. Davids, and returned to Queensferry by boat between 3 and 4 p.m. Return tickets—Queensferry, 9d.; Granton Pier, 2d.; Ferry Pier, 6d.

Among the plants gathered were the following:—

Thalictrum flexuosum	Thlaspi arvense
„ majus	Reseda lutea
Ranunculus hederaceus	Viola hirta
Papaver Rhœas	„ canina
„ dubium	Saponaria officinalis
„ Argemone	Lychnis vespertina
Fumaria micrantha	Cerastium tetrandrum
Draba verna	„ semidecandrum
Brassica oleracea	Sagina maritima
Diploxis tenuifolia	„ subulata

Lepigonum marimum	Sambucus Ebulus (not in flower)
Linum usitatissimum	Filago germanica
Geranium sanguineum	Antennaria dioica
„ sylvaticum	Anthemis Cotula
„ pyrenaicum	Carduus tenuiflorus
Melilotus officinalis	„ crispus
Trifolium arvense	Campanula rotundifolia
„ striatum	Erica cinerea
„ filiforme	Armeria maritima
Astragalus Glyciphyllus	Anagallis arvensis
Oxytropis Halleri	Lithospermum arvense
Vicia lutea	Echium vulgare
„ sativa	Veronica agrestis
Spiræa Filipendula	Lamium intermedium
Rubus corylifolius	„ maculatum
Potentilla verna	Scleranthus annuus
Comarum palustre	Suæda maritima
Rosa spinosissima	Orchis mascula
Sedum Telephium (not in flower)	„ maculata
Sedum villosum	Scirpus pauciflorus
Sempervivum tectorum (not in flower)	Carex (numerous species)
Callitriche platycarpa	Arundo epigejos (St. Davids)
Carum Carui	Trisetum flavescens
Anthriscus vulgaris	Koeleria cristata
Enanthe crocata	Sclerochloa maritima
Haloscias scoticum	„ distans
Pastinaca sativa (St. Davids)	Festuca arundinacea
Daucus Carota	Nardus stricta

### Arran.

Wednesday, 2nd July 1856.

Party consisting of J. H. Balfour, George J. Allman, Alex. Abercrombie, Arthur Amys, J. W. Anderson, Roderick Hope Bain, John B. Balfour, Thomas Barclay, John M. Bell, Joseph Bell, M. Montgomerie Bell, William M. Black, James M. Brodie, E. B. Broxter, James Burn, George Calvert, James S. Candlish



T. S. Christie, R. H. Clay, John de la Condamine, Robert C. Cowan, Ric. John Will. Dixon, James Dodd, George Dods, T. T. Douglass, Andrew Duncan, John Duncan, San Effendi, F. W. A. Fabeck, William Forbes, Thomas Fuller, Archibald W. Hamilton, Robert B. Hay, James Hector, George Hill, M. Horn, C. R. Howden, W. Jernanor, Henry Leach, W. Ward Lendam, William Lorimer, Alexander J. Macfarlan, William McNeillie, Robert Maxwell, F. A. Morton, John R. Murray, William Nichol, Arthur Pearse, Andrew Pow, John Sandison, John Small, William D. Singer, Alex. D. Soutter, Wm. Hy. Stephenson, William Turnbull, Thomas James Walker, and George Williamson, met at the Edinburgh and Glasgow Railway Station at 8.20 p.m., and proceeded by the 8.30 train to Glasgow. Return tickets, available till 5th, 3s. 6d.

Reached Glasgow at 10.30 p.m., and proceeded to the Queen's Hotel, George Square (Mr. Macgregor), where accommodation was ready for us all.

*Thursday, 3rd July 1856.*

Party was roused at 6 a.m., and, after settling the bill, proceeded at 7 a.m. to the Broomielaw to the Arran steamboat "Jupiter." Baggage was conveyed in a cart for a charge of 3s. Breakfasted on board the "Jupiter." Reached Springbank about 1 p.m. Here the botanical party landed with all the baggage, while Professor Allman with a party of about 12 proceeded by the steamboat to Holy Island. There Dr. Greville and Dr. Miles had boats ready for the party (dredging), who were very successful.

The botanical party, after making arrangements at the inn for beds and tea-dinner, walked by the shore to Corriegills and Clachland Point. Crossing the trap without going round the point, they walked by the shore to Lamlash, meeting Dr. Greville, and afterwards went by the road to Springbank.

The chief plants gathered were:—

Hypericum Androsæmum	Samolus Valerandi
Saxifraga Geum (wood near Springbank)	Pinguicula lusitanica
Cotyledon Umbilicus	Juncus maritimus (not in flower)
Anagallis tenella	Blysmus rufus

Schœnus nigricans	Hymenophyllum Wilsoni
Carex lævigata	Asplenium marinum
„ fulva	Lastrea Oreopteris
Triticum laxum (near Lam-lash)	

Also on shore between Springbank and Brodick :—

Brassica monensis	Mertensia maritima
Eryngium maritimum	Fucus vesiculosus, vars.

Returned for tea-dinner about 7 p.m. After putting plants in paper retired to rest, some to beds, others to mattresses on the floor of the court house, others to a bed of straw. One of the party slept in a sycamore-tree for three hours, and another lay on the grass plot.

*Friday, 4th July 1856.*

All were roused at 6 a.m., and, after breakfasting in the open air, started about 7.30 for their destinations. About 12 went to dredge with Professor Allman, the rest went to Goatfell. The day was good at first and promised well, but ere we reached the summit of the mountain (which is 2875 feet high) mist and rain came on. We found it impossible to go along the ridge to Glen Sannox, and we therefore descended to the shore at Brodick, and walked towards Corrie.

The plants gathered were :—

Sedum anglicum	Lycopus europæus (not in flower)
Oenanthe Lachenalii (not in flower)	Scutellaria galericulata
Jasione montana	Gymnadenia conopsea
Anagallis tenella	Habenaria chlorantha
Erythræa littoralis (not in flower)	Juncus maritimus (not in flower)
Linaria Cymbalaria	Potamogeton plantagineus
Pinguicula lusitanica	Schœnus nigricans

In woods on the Red Sandstone Cliffs :—

Lythrum Salicaria (not in flower)	Lastrea dilatata
Hymenophyllum tunbridgense	„ Foeniseii
	Osmunda regalis

On Goatfell :—

Alchemilla alpina	Carex pilulifera
Saxifraga stellaris	„ pallescens
Peplis Portula	Juniperus nana
Vaccinium Vitis-Idæa	Lycopodium Selago
Salix herbacea	Batrachospermum vagum
Carex pauciflora	

Returned to Springbank about 3.30 p.m. Dredging party did not return till 7.30 p.m.

Mr. Nichol walked by Corrie to Loch Ranza, and did not return to Springbank till next day, when he brought back with him *Pyrus fennica*, *Drosera anglica*, *Lobelia Dortmanna*.

*Saturday, 5th July 1856.*

The morning was beautiful, and all breakfasted about 7 a.m. in the open air at Springbank. After breakfast the party divided into different sections, some going to dredge in Lamlash Bay, others boating and fishing, others going to Holy Island. The party for Holy Island proceeded to Lamlash and got a large boat to take them across and wait for them. They inspected Dr. Miles' Vivarium which is admirably kept, and contains many beautiful specimens of marine animals. Dr. Miles and Dr. Greville left in the morning for Glasgow.

The party next examined the vegetation of the island and gathered :—

Sedum anglicum	Zostera marina
Arctostaphylos Uva-ursi	Asplenium marinum
Lycopus europæus	Osmunda regalis
Scutellaria galericulata	

Visited also St. Molio's Cave ; some ascended to the top of the island. The day became overcast and some rain descended. It was not, however, till late in the afternoon that the mist, rain, and wind became great.

On returning to Lamlash gathered fine specimens of *Hypericum Androsæum* and *Cotyledon Umbilicus*. Joined the boat at 1.45 p.m., our baggage having been put on board at Springbank.

Dined on board the boat. Took up some of the party at Corrie in passing. The captain of the "Jupiter" made great efforts to take the party back to Glasgow in time for the 8 o'clock train to Edinburgh. He was much hindered by the parties coming on board at all the ports, owing to the day being set apart for Greenock Fair. In spite of this, we reached the Broomielaw at 7.45 p.m., and were in time for the train, reaching Edinburgh at 10 p.m.

---

**Dysart, Wemyss, MacDuff's Castle, Leven Bridge,  
Thornton.**

*Saturday, 12th July 1856.*

Party of 70-80 met at the Edinburgh, Perth, and Dundee Railway Station at 9.45 a.m. and proceeded to Dysart, thence walked to Wemyss, MacDuff's Castle, and Thornton Junction, where they joined the train at 8.10 p.m., and returned to Edinburgh about 10. Return tickets, 2s.

Professor Allman with a geological party accompanied the botanists. At Dysart Station Mr. Barclay, Mr. Kerr, mining engineer, and the Messrs. Knight, sons of the Free Church minister of East Wemyss, met the party. Mr. Bywater also met them at his College, and exhibited his coal fossils and some diamonds. At Dysart the geological and botanical parties separated, the geological party guided by Mr. Kerr, the botanical by Messrs. Knight. The botanists walked near the shore to Wemyss, saw fossils on shore in shale.

Visited Chapel Gardens under guidance of Mr. Bywater, the gardener. Went to Wemyss Castle—examined cliffs and garden, went by shore to East Wemyss, called at Mr. Knight's and saw a beautiful collection of seaweeds and zoophytes, then walked to caves and gathered *Asplenium marinum*.

Visited the cave below MacDuff's Castle, and lunched at the Castle about 3.30 or 4 p.m. Violent thunderstorm passed towards south-east, we only got a few drops of rain. Mr. Barclay kindly provided lunch for the whole party. Walked towards Leven Bridge, and then by banks of Leven and Ore to Thornton Junction.

Among the plants collected were the following :—

<i>Thalictrum minus</i>	<i>Senecio viscosus</i>
<i>Ranunculus aquatilis</i>	<i>Cynoglossum officinale</i>
<i>Brassica oleracea</i> (Wemyss Castle rocks)	<i>Anchusa sempervirens</i>
<i>Lepidium latifolium</i> (Wemyss Castle rocks)	<i>Hyoscyamus niger</i> (Wemyss Castle)
<i>Cerastium glomeratum</i>	<i>Verbascum Thapsus</i> (MacDuff's Castle)
<i>Hypericum humifusum</i> (Leven Railway banks)	<i>Galeopsis versicolor</i>
<i>Linum usitatissimum</i>	<i>Atriplex Babingtonii</i>
<i>Geranium sylvaticum</i>	<i>Polygonum Raii</i> (near West Wemyss)
„ <i>pratense</i>	<i>Rumex viridis</i>
<i>Acer campestre</i> (hedges, MacDuff's Castle)	<i>Euphorbia exigua</i>
<i>Pyrus Aria</i>	<i>Listera ovata</i>
<i>Circea lutetiana</i> (Chapel woods)	<i>Lilium Martagon</i> (from garden)
<i>Conium maculatum</i>	<i>Scirpus setaceus</i> (near Thornton)
<i>Smyrnum Olusatrum</i> (Wemyss Castle)	„ <i>sylvaticus</i> (near Thornton)
<i>Sambucus nigra</i> , var. <i>laciniata</i> (near Chapel)	<i>Carex laevigata</i> (near Thornton)
<i>Valeriana pyrenaica</i> (woods at Wemyss Castle)	<i>Festuca arundinacea</i>
<i>Dipsacus sylvestris</i> (near Wemyss)	<i>Triticum junceum</i>
<i>Knautia arvensis</i>	<i>Asplenium marinum</i> (caves at Wemyss)
<i>Matricaria Parthenium</i>	<i>Polyporus</i>

### Moffat.

Friday, 18th July 1856.

Party consisting of J. H. Balfour, A. Amys, J. Ballantyne, John Montgomerie Bell, Joseph Bell, M. Montgomerie Bell, James B. Carruthers, William Carruthers, John de la Condamine, Alexander Dickson, A. B. Duffin, Allan Duke, P. Neill Fraser, H. R. Handyside, Charles Wm. Hope, John A. Hudleston,

J. St. Johnston, William Johnston, Henry Leach, Alexander J. Macfarlan, David Philip MacLagan, Robert Craig MacLagan, W. McNeillie, Alex. C. Maingay, A. Murray, Robert Nicholson, John Orphoot, Ric. John Wil. Orton, James Sadler, John Sadler, William R. Sanders, Thomas James Walker, George Williamson, met at the Caledonian Railway Station at 5 p.m., and proceeded to Beattock, which was reached about 8.30 p.m. Return ticket, 4s. Three of the party, Messrs. Leach, Walker, and Orton, missed the train, and came by one at 8.15 p.m.

At Beattock met the Rev. Mr. Little, who had kindly made preparation for our accommodation at Moffat. Walked to Moffat and took up our quarters at the Annandale Arms Inn, Mrs. Cranstoun's, where all were comfortably accommodated. Beds were provided for the most of the party in the town. Mr. Hope, Mr. Fraser, and Mr. Maingay had been in the district two days before us and brought a number of good plants, among others *Vicia Orobus* and *Allosorus crispus*.

*Saturday, 19th July 1856.*

Breakfasted about 6.30 a.m. After settling bill proceeded by one omnibus with four horses and two carriages with two horses each to the Grey Mare's Tail. There we dismissed our conveyances, and walked the rest of the day.

Visited the waterfall and the rocks near it, gathering:—

Thalictrum minus	Festuca ovina vivipara
Epilobium alpinum	Hymenophyllum Wilsoni
Oxyria reniformis	Allosorus crispus

Thence, under the guidance of a shepherd provided by Mr. Little from Mr. Robert Johnstone, of Polmoodie, walked to Dobb's Linn, picking *Saxifraga stellaris* and *Sedum villosum* on the way. On the rocks near the Linn *Saxifraga hypnoides* and *Botrychium Lunaria*. Thence walked to Loch Skene, gathering on the way *Rubus Chamæmorus* and *Melampyrum montanum*, and in the Loch *Littorella lacustris*. Saw no *Isoëtes*. Some of the party visited the rocks round Loch Skene searching for *Woodsia ilvensis*, but did not find it. Mr. Sadler and his brother had started at about 3 a.m. with the view of getting this

fern, and Messrs. Hope, Maingay, and Fraser examined the Loch Skene rocks very carefully. They had previously searched for the fern unsuccessfully in the Beef Tub. Most of the party examined the rocks on White Coombe, which is said to be the highest hill in the south of Scotland.

On the rocks were found :—

Thalictrum alpinum	Salix Lapponum
Saxifraga stellaris	„ Myrsinites
Sedum Rhodiola	„ herbacea
Epilobium angustifolium	Carex rigida
„ alpinum	„ pilulifera
Saussurea alpina	Allosorus crispus
Oxyria reniformis	

Ascended to the summit of the hill and had a splendid view all round, particularly in the direction of the Cumberland hills and the Solway.

After this our guide left us, and we proceeded under the direction of Messrs. Carruthers (natives of Moffat) along the top of the hill towards Hartfell, lunching on the side of a stream between White Coombe and Hartfell. The road was very fatiguing. Reached summit of Hartfell, and had again a splendid view. From this we descended by the Well Burn to the Mineral Well, and thence to Moffat, which was reached about 5 p.m. Some descended by a glen to the road, and Mr. Macfarlan got *Woodsia ilvensis*. After a cold collation we proceeded to Beattock and met the express train at 6.43, by which we returned to Edinburgh about 8.30 p.m.

The following are some of the more interesting plants gathered by the party :—

Ranunculus acris	Saxifraga oppositifolia
Trollius europæus	(Dobb's Linn)
Cardamine pratensis	„ stellaris
Cochlearia officinalis	(Dobb's Linn)
Geranium sylvaticum	„ hypnoides
Vicia sylvatica (Grey	(Dobb's Linn)
Mare's Tail)	Sedum Rhodiola
Rubus saxatilis	„ villosum (Dobb's
„ Chamæmorus	Linn)



Callitriche platycarpa	Narthecium ossifragum
"    pedunculata	Carex remota
Epilobium angustifolium	"    rigida
"    alpinum	"    pilulifera
Circæa alpina	"    binervis
Viburnum Opulus	"    flava
Galium pusillum (Grey Mare's Tail)	Festuca ovina vivipara
Valeriana officinalis	Hymenophyllum Wilsoni
Solidago Virgaurea	Allosorus crispus
Antennaria dioica	Athyrium Filix-fœmina
Saussurea alpina	Woodsia ilvensis
Vaccinium Vitis-Idæa	Cystopteris fragilis
Pyrola minor	Polystichum aculeatum
"    secunda	Lastrea Oreopteris
Melampyrum montanum	"    Filix-mas
Oxyria reniformis	"    dilatata
Rumex aquaticus	Marchantia androgyna
Salix Lapponum	Neckera crispa
"    Myrsinites	Cladonia rangiferina
"    herbacea	Sticta sylvatica
Empetrum nigrum	"    scrobiculata
	"    pulmonaria

**Haddington, Lennoxlove, Coalston, Eaglescarnie,  
Danskin Loch, Yester.**

*Saturday, 26th July 1856.*

Party of 35 met at the North British Railway Station and proceeded to Haddington. Return tickets, 1s. 6d. each. At the Haddington Station met Mr. Shearer, who kindly accompanied us through the woods of Lennoxlove (where we visited the Tower by permission of Mr. Stuart), Coalston, and Eaglescarnie woods, visited Gothic Hall and cave, and walked to Yester, thence we walked to Danskin Loch and returned to Yester House about 3, where lunch was prepared for us by the Marquis of Tweeddale. Lord Arthur Hay and Lord Frederick Hay also joined the party. After luncheon walked by Gifford to Haddington, where the party joined the train at 6.50 p.m., and reached Edinburgh about 8 p.m.

Among the plants collected may be noted the following :—

Ranunculus sceleratus	Ligustrum vulgare
Stellaria nemorum	Erythraea Centaurium
Hypericum quadrangulum	Myosotis sylvatica (Yester)
"    hirsutum	Lithospermum arvense
Tilia grandifolia	Veronica polita
"    parvifolia (Lennoxlove)	"    scutellata
"    europaea	(Danskine)
Geranium sylvaticum	Atriplex hastata
"    pratense	Polygonum Convolverulus
Ononis arvensis	"    aviculare
Trifolium medium	"    Persicaria
Rubus corylifolius	Rumex sanguineus
Comarum palustre	"    viridis
Agrimonia Eupatoria	Daphne Laureola (Lennox-
Rosa rubiginosa	love)
Saxifraga umbrosa (Lennox-	Euphorbia exigua
love)	Quercus Robur
Ribes Grossularia	"    sessiliflora
"    alpinum	(Lennoxlove)
"    rubrum	Listera ovata
Sempervivum tectorum	Juncus glaucus
Epilobium angustifolium	"    supinus (Danskine)
"    hirsutum	Potamogeton natans
"    parviflorum	(Danskine)
"    palustre	"    compressus
Circaea alpina	Scirpus setaceus
Viburnum Opulus	Carex muricata (Lennox-
Doronicum Pardalianches	love)
(Lennoxlove)	"    ovalis
Arctium minus	"    sylvatica (Yester)
Hieracium vulgatum	"    hirta
Tragopogon minor	"    riparia (Danskine)
Campanula latifolia	"    ampullacea
Calluna vulgaris	Phalaris arundinacea
Erica Tetralix	Festuca arundinacea
"    cinerea	Brachypodium sylvaticum
Pyrola minor	Triticum caninum
Lysimachia nemorum	Cystopteris fragilis (Yester)
Anagallis arvensis	

EXCURSIONS IN 1857.

**Craigleith, Corstorphine, Barnton, Banks of the Almond,  
Cramond, Granton.**

*Saturday, 23rd May 1857.*

Party of upwards of 100 met at Dean Bridge at 10 a.m. and walked by Craigleith Quarry to Corstorphine Hill, crossed over the hill to the Queensferry road, and then proceeded by Barnton to the banks of the Almond and Cramond. Returned by shore of Firth of Forth to Granton, and reached Edinburgh about 5.30 p.m. Rain in the afternoon.

Usual spring plants gathered :—

Anemone nemorosa	Saxifraga granulata
Ranunculus Ficaria	Ribes Grossularia
Epimedium alpinum	„ alpinum
Draba verna	„ nigrum
Viola lutea	Valeriana pyrenaica
Geranium lucidum	Doronicum Pardalianches
(Caroline Park)	(Corstorphine)
Acer platanoides (near	Vinca minor
Almond)	Lamium maculatum
Prunus Avium	Ruscus aculeatus
„ Cerasus	Allium ursinum
„ Padus	

**Penicuik, Valleyfield, Auchendinny, Roslin.**

*Saturday, 30th May 1857.*

Party of 74 met at the North British Railway Station at 9 a.m. and proceeded to Penicuik. Return tickets, 1s. 3d. Walked to Valleyfield, saw the Paper Works, then walked by the banks of the North Esk to Auchendinny and Roslin. Visited Roslin Chapel. Returned by train passing Roslin Station at 5.29 p.m.

Among the plants gathered were the following :—

Ranunculus auricomus	Carex vulgaris
Trollius europæus (scarcely in flower)	" glauca
Cheiranthus Cheiri	" præcox
Arabis hirsuta	Melica uniflora
Cardamine amara	Asplenium Ruta-muraria (Roslin)
Viola palustris	Scolopendrium vulgare (Roslin)
Stellaria nemorum	Polypodium Dryopteris
" uliginosa	" Phegopteris
Oxalis Acetosella (pink)	Equisetum Telmateia
Prunus Avium	" arvense
" Padus	" umbrosum
Rubus saxatilis	" sylvaticum
Chrysosplenium alterni- folium	" palustre
Adoxa Moschatellina	" limosum
Valeriana pyrenaica	" hyemale
Vaccinium Myrtillus	Polytrichum commune
Vinca minor	Bryum hornum
Veronica montana	Hypnum undulatum
Lamium incisum	Bartramia fontana
Salix alba	Jungermannia albidia
" cinerea	" bidentata
" Caprea	" epiphylla

### Burntisland, Pettycur, Kinghorn.

Saturday, 6th June 1857.

Party of about 100 met at Edinburgh, Perth, and Dundee Railway Station at 10 a.m. and proceeded to Burntisland. Return tickets, 9d.

Walked by shore and rocks near it to Pettycur and Kinghorn, and returned by Kinghorn Loch to Burntisland in time for boat at 5.10 p.m.

Among the chief plants gathered were the following :—

Ranunculus aquatilis	Cheiranthus Cheiri
Trollius europæus (Glas- mount woods)	Arabis hirsuta

Alyssum calycinum (railway banks)	Valerianella olitoria
Cochlearia officinalis	Anthemis arvensis
Thlaspi arvense	Senecio viscosus
Reseda lutea	Centaurea Cyanus
Viola sylvatica	Hieracium vulgatum
„ canina	Leontodon palustris
Silene inflata	Tragopogon minor
„ maritima	Primula veris
Lychnis vespertina	Cynoglossum officinale
Cerastium tetrandrum	Linaria Cymbalaria
„ arvense	(Pettycur)
(Links near Pettycur and railway banks)	Thymus Serpyllum
Linum catharticum	Salvia Verbenaca
Geranium sanguineum	Lamium amplexicaule
Erodium cicutarium	„ incisum
Trifolium repens	Plantago maritima
„ procumbens	Parietaria erecta
„ minus	Orchis mascula
„ filiforme	Ruscus aculeatus
Anthyllis Vulneraria	Carex arenaria
Astragalus hypoglottis	„ glauca
„ Glyciphyllus	„ ampullacea
(railway banks)	Phleum arenarium
Vicia hirsuta	Aira præcox
Fragaria elatior	Avena pratensis
Saxifraga umbrosa	Koeleria cristata
Carum Carui (near Kinghorn)	Sclerochloa maritima
Myrrhis odorata	„ loliacea
Scandix Pecten-Veneris	Ophioglossum vulgatum
	(near Burntisland)
	Botrychium Lunaria
	Alge (many)

**Lanark, Cora Linn, Bonnington, Stonebyres, Cartland Crag.**

*Saturday, 13th June 1857.*

Party of 100 met at Caledonian Railway Station at 6.45 a.m., and proceeded to Cleghorn Junction. Return tickets, 2s. 6d.

Walked from the station to Lanark, thence to the Falls of Clyde, Cora Linn, and Bonnington, thence to Stonebyres, Cartland Crag, and back to Cleghorn. Returned by train leaving Cleghorn at 4.37 p.m.

Among the plants gathered were the following:—

<i>Trollius europæus</i>	<i>Carex disticha</i>
<i>Aquilegia vulgaris</i>	„ <i>paniculata</i>
<i>Arabis hirsuta</i>	„ <i>aquatilis</i>
<i>Draba muralis</i> (rocks at Cora Linn)	„ <i>vulgaris</i>
<i>Stellaria uliginosa</i>	„ <i>glaucæ</i>
<i>Geranium sylvaticum</i>	„ <i>panicæ</i>
„ <i>lucidum</i>	„ <i>sylvatica</i>
<i>Anthyllis Vulneraria</i>	„ <i>binervis</i>
<i>Vicia Orobus</i>	„ <i>fulva</i>
<i>Rubus saxatilis</i>	„ <i>flava</i>
<i>Carum Carui</i>	„ <i>paludosa</i>
<i>Galium boreale</i>	„ <i>ampullacea</i>
<i>Solidago Virgaurea</i>	<i>Milium effusum</i>
<i>Antennaria dioica</i>	<i>Melica nutans</i>
<i>Doronicum Pardalianches</i>	„ <i>uniflora</i>
<i>Hieracium murorum</i>	<i>Briza media</i>
<i>Apargia hispida</i>	<i>Asplenium viride</i>
<i>Pyrola minor</i>	<i>Cystopteris fragilis</i>
<i>Polemonium cæruleum</i>	<i>Polystichum lobatum</i>
<i>Melampyrum pratense</i>	„ <i>aculeatum</i>
<i>Polygonum Bistorta</i>	<i>Polypodium Dryopteris</i>
<i>Neottia Nidus-avis</i>	„ <i>Phegopteris</i>
<i>Orchis latifolia</i>	<i>Equisetum umbrosum</i>
<i>Eriophorum latifolium</i>	<i>Lycopodium selaginoides</i>

**Newton, Dryburgh Abbey, Eildon Hills, Melrose, Minto  
Crag, Hassendean, Galt.**

*Saturday, 20th June 1857.*

Party of 75 met at the North British Railway Station and proceeded to Newton, then walked to Dryburgh Abbey, banks of Tweed to Eildon Hills and Melrose. Return tickets, 2s. 6d.

Some of the party went to Minto Crags by Hassendean, and gathered :—

Lychnis Viscaria	Asplenium septentrionale
Asplenium germanicum	

and some good lichens, as :—

Nephroma resupinata	Sticta fuliginosa
Parmelia glomulifera	„ limbata
„ aquila	„ scrobiculata
Calicium chrysocephalum	

Mr. Arnot examined Galtmede Moss and Cauldfield Loch, and got :—

Sedum villosum	Euphorbia Esula
Valeriana dioica	Carex limosa

Among the plants gathered by the party may be noticed :—

Thalictrum flexuosum (Tweedbank)	Lonicera Caprifolium (Dry- burgh)
Eranthis hyemalis (in fruit, Dryburgh)	Galium boreale
Aquilegia vulgaris (Dry- burgh)	„ pusillum
Aconitum Napellus (Dry- burgh)	Valeriana dioica
Sisymbrium Thalianum	Solidago Virgaurea
Sinapis alba	Antennaria dioica
Viola odorata (Dryburgh)	Anthemis arvensis
„ lutea (Eildon)	Matricaria Parthenium
Tilia europæa	Doronicum Pardalianches
Geranium sanguineum	Fraxinus excelsior
„ sylvaticum	Menyanthes trifoliata
„ pratense	Digitalis purpurea, var. alba
„ lucidum	Lathræa Squamaria (Tweedbank)
Euonymus europæus (Tweedbank)	Origanum vulgare
Prunus Avium	Lamium album
„ Cerasus	Plantago media
„ Padus	Polygonum Bistorta
Rubus saxatilis	Rumex sanguineus
Geum intermedium	„ viridis
Saxifraga Geum (Dryburgh)	Salix cinerea
	„ aquatica
	„ Caprea



Neottia Nidus-avis	Carex disticha
Listera cordata	„ hirta
Orchis latifolia	Nardus stricta
„ maculata	Polystichum aculeatum
Polygonatum multiflorum	Lycopodium clavatum
Convallaria majalis	

Mr. Gorrie states that he found *Poterium Sanguisorba* in the low part of the Eildon, in the spot where the great fair is usually held.

### East Linton, Binny Wood, Tynningham, Belhaven, Dunbar.

Saturday, 27th June 1857.

Party of 35 met at North British Railway Station at 8 a.m. and proceeded to East Linton, thence walked to Binny Wood, Tynningham, Belhaven, and Dunbar, returning from Dunbar at 6.26 p.m. Return tickets, 2s.

Among the plants collected were the following :—

Thalictrum minus	Hyoscyamus niger
Papaver Rhœas	(Dunbar Castle)
„ dubium	Salicornia herbacea
„ Argemone	Sueda maritima
Cochlearia danica	Salsola Kali
Cakile maritima	Rumex viridis
Lepigonum marinum	Hippophaë rhamnoides
Malva sylvestris	Parietaria erecta
„ rotundifolia	Juncus Gerardi
Rhamnus Frangula	Triglochin palustre
Agrimonia Eupatoria	„ maritimum
Poterium Sanguisorba	Carex arenaria
(near Belhaven)	„ distans
Conium maculatum	„ extensa
Scandix Pecten-Veneris	Phalaris arundinacea
„ Anthriscus	Phleum arenarium
Knautia arvensis	Sclerochloa maritima
Aster Tripolium	„ loliacea
Artemisia maritima, var.	(Dunbar Castle)
gallica	Triticum junceum
Pyrola minor	Lastrea Oreopteris
Cynoglossum officinale	Verrucaria maura (rocks
Solanum Dulcamara	near Dunbar)

**Forteviot, Invermay Woods, Pitkeathly, Moncrieff Hill,  
Kinnoul Hill, Perth.**

*Saturday, 4th July 1857.*

Party of about 40 met at the Scottish Central Railway Station at 6.30 a.m. and proceeded to Forteviot, and returned from Perth at 6.27 p.m., reaching Edinburgh at 9 p.m. Return tickets, 3s. 11d. They were met by Dr. Lauder Lindsay, Dr. Stirling, Dr. Lyell. They first visited Invermay Woods, and then went to Pitkeathly, visited Moncrieff Hill, crossed the water to Kinnoul Hill, and returned to Perth.

Among the more important plants gathered were the following:—

Thalictrum minus	Cynoglossum sylvaticum
Nasturtium sylvestre	Echium vulgare
Hesperis matronalis	Solanum Dulcamara
Lepidium campestre	Scrophularia vernalis
"    Smithii	(sparingly)
Malva moschata	Betonica officinalis
Genista anglica	(abundant)
Ornithopus perpusillus	Listera Nidus-avis
Rubus nitidus	"    ovata
Potentilla argentea	Epipactis latifolia (sparingly)
Sedum Telephium	Habenaria viridis
Ænanthe crocata	"    chlorantha
Dipsacus sylvestris	Paris quadrifolia (sparingly)
Solidago Virgaurea	Carex hirta
Doronicum Pardalianches	Aira cespitosa
Cnicus heterophyllus	"    "    vivipara
Centaurea Scabiosa	Bartramia pomiformis
Lactuca virosa (Kinnoul)	Cladonia rangiferina
Vinca minor	

---

**Perth, Methven.**

*Saturday, 11th July 1857.*

No excursion to-day owing to illness, but Mr. Sadler with others went to Perth, visited Muirward Wood, in Highfield

Farm, near New Scone, and gathered *Moneses grandiflora* and *Trientalis europæa*, then proceeded 6 or 7 miles further to Methven Woods and Marsh. In the Almond Bank Marsh, at fourth milestone from Perth on way to Crieff, gathered :—

*Cicuta virosa*  
*Vaccinium Oxycoccus*  
*Utricularia minor*

*Scheuchzeria palustris*  
*Lastrea spinulosa*

---

**Kelso, Cornhill, Coldstream, Tweedmill, Twisel Castle,  
 Norham, Berwick.**

*Friday, 17th July 1857.*

The following party met at the North British Railway Station at 4.35 p.m. and proceeded to Kelso :—J. H. Balfour, Thomas Ainslie, J. Andrew, Robert Brown, Robert C. Cowan, Alex. Graham, Alex. Hutchison, Andrew Inglis, John Inglis, John C. Jones, John Linton, Alex. J. Macfarlan, John Menzies, William Mitchell, William Russell, Thomas G. Scott, P. A. Simpson, William D. Thomson, William Traill, George Williamson. Return tickets to Kelso on Friday and from Berwick on Saturday, 3s. 6d.

On reaching Kelso the party proceeded by train to Cornhill (paying 1s. each), and thence walked to Coldstream, where they met the Rev. Mr. Goldie. The party were accommodated partly at the Manse, partly in three different inns, Hardie's, Horne's, and the Black Bull.

*Saturday, 18th July 1857.*

After breakfasting at 6 a.m. proceeded along banks of Tweed to Tweedmill, then crossed to the Till, ascended that river to Twisel Castle and the old bridge over which the Earl of Surrey crossed with the English army to Flodden. Proceeded on English side of Tweed to point opposite Milnegraden, and then to Norham, which was reached between 1 and 2 p.m. Had lunch partly at the inn and partly at Mr. Ainslie's. Visited the old Castle of Norham, and then went by train to Berwick, reaching it about 3.20 p.m. Fares, 1s. 2d. each. Among the

plants gathered were the following :—

*Cheiranthus Cheiri* (Twisel)  
*Nasturtium sylvestre*  
 (Tweed bank)  
*Sisymbrium Irio* (Pier  
 gate, Berwick)  
*Diplotaxis tenuifolia*  
 (Berwick wall, North-  
 east point near Pier)  
*Lepidium latifolium* (near  
 Norham)  
*Viola odorata* (Norham)  
*Saponaria officinalis* (Twisel)  
*Lychnis Githago*  
*Sagina maritima* (Berwick  
 walls)  
*Hypericum perforatum*  
 „ *hirsutum*  
*Malva moschata* (Tweed,  
 Coldstream)  
*Geranium pratense*  
*Melilotus officinalis*  
*Trifolium arvense*  
*Prunus Avium*  
*Rubus nemorosus* ?  
*Potentilla reptans*  
*Agrimonia Eupatoria*  
*Myriophyllum spicatum*  
*Lythrum Salicaria*  
*Epilobium angustifolium*  
 „ *hirsutum*  
 „ *montanum*  
 „ *palustre*  
*Conium maculatum*  
*Oenanthe crocata*  
*Æthusa Cynapium*  
*Torilis Anthriscus*  
*Sambucus Ebulus* (Twisel)  
*Dipsacus sylvestris*  
 (Coldstream)  
*Scabiosa Columbaria*  
*Matricaria Parthenium*  
*Tanacetum vulgare*

*Carduus acanthoides*  
 „ *lanceolatus*  
 „ *palustris*  
 „ *arvensis*  
*Hieracium vulgatum*  
*Lactuca virosa* (8-10 feet high)  
*Lysimachia Nummularia*  
 (near Norham)  
*Anagallis arvensis*  
*Ligustrum vulgare*  
*Anchusa sempervirens*  
*Lithospermum arvense*  
*Echium vulgare*  
*Convolvulus arvensis*  
*Hyoscyamus niger* (near  
 Railway Station, Ber-  
 wick)  
*Verbascum Thapsus*  
*Linaria vulgaris*  
*Origanum vulgare*  
*Lamium purpureum*  
 „ *album*  
*Ballota foetida*  
*Polygonum amphibium*  
*Humulus Lupulus*  
*Parietaria diffusa*  
*Salix aquatica*  
 „ *Helix*  
*Anacharis Alsinastrum*  
 (Whiteadder)  
*Sparganium ramosum*  
*Potamogeton natans*  
 „ *heterophyllus*  
 „ *lucens*  
 „ *perfoliatus*  
 „ *pectinatus*  
*Carex vulpina* (near Cold-  
 stream, far from sea)  
*Holcus mollis*  
*Asplenium marinum* (rocks  
 near Milnegraden, 8 or  
 9 miles from sea)

**Stirling, Inverarnan, Loch Lomond, Ben Voirlich,  
Tarbet.**

*Thursday, 23rd July 1857.*

Party of 18, composed of J. H. Balfour, M'Taggart Cowan, Robert C. Cowan, F. Deas, P. Neill Fraser, Alex. Graham, Edwin Grogan, John Inglis, John C. Jones, John Linton, Alex. J. Macfarlan, William Mitchell, David Robertson, William Russell, Thomas G. Scott, Offley B. Shore, P. A. Simpson, William D. Thomson, met at the Scottish Central Railway Station at 8 a.m. and proceeded to Stirling. After waiting about an hour and a half there, visiting the Castle, and gathering:—

*Sedum album*  
*Lactuca virosa*

*Verbascum Lychnitis*  
*Linaria repens*

and other plants, the party proceeded by train to Balloch, and then by steamboat to Inverarnan, which was reached about 3.15 p.m. Return tickets to Stirling, available to 25th, 3s. Do., from Stirling to head of Loch Lomond, 5s. Total 8s.

Rain came on after leaving Stirling, and the sail up the loch was very wet. Mr. Shore left the party at Tarbet and went to Lord Benholme's. On reaching Inverarnan the party proceeded to M'Lellan's Inn, where beds had been provided.

In spite of the rain the party took short walks in the vicinity, and gathered:—*Malaxis paludosa*, *Lycopodium inundatum*, and other plants more common. After a tea-dinner the plants were examined and put into paper.

*Friday, 24th July 1857.*

Party breakfasted at 6.30 a.m. The day was wet and misty. Notwithstanding, the greater part walked to Ben Voirlich and examined the flora of the hill. Sleet and rain continued more or less until about 5 in the evening, when the sun broke out, and an exquisite view of the surrounding country was displayed.

Among the plants gathered were :—

Thalictrum alpinum	Salix herbacea
Cochlearia, varieties	Juncus trifidus
Silene acaulis	„ triglumis
Rubus saxatilis	Luzula spicata
Sibbaldia procumbens	Carex rigida
Alchemilla alpina	„ pulla
Saxifraga oppositifolia	Aira caespitosa vivipara
„ stellaris	Poa Balfourii
„ aizoides	Juniperus nana
„ hypnoides	Hymenophyllum Wilsoni
Sedum Rhodiola	Cystopteris fragilis
Epilobium alpinum	„ dentata
Galium boreale	Polystichum Lonchitis
Antennaria dioica	Lycopodium Selago
Gnaphalium supinum	„ annotinum
Saussurea alpina	„ clavatum
Armeria maritima	„ alpinum
Plantago maritima	Isoetes lacustris
Polygonum viviparum	

On the lower grounds :—

Corydalis claviculata	Stachys ambigua
Hypericum humifusum	Quercus Robur
Drosera rotundifolia	„ sessiliflora
Lythrum Salicaria	Narthecium ossifragum
Lysimachia vulgaris	Carex vesicaria

*Saturday, 25th July 1857.*

Breakfasted at 6.30 a.m., and then the majority of the party walked by shores of Loch Lomond to Tarbet and Loch Long, meeting the boat at Tarbet about 4.10 and reaching Edinburgh about 9 p.m. This day we gathered :—

Hypericum Androsæmum	Lobelia Dortmanna
Drosera anglica	Littorella lacustris
Circea alpina	Scutellaria galericulata
Hieracium prenanthoides	Polypodium Phegopteris
„ denticulatum	Osmunda regalis

Day very windy and showery.

## Arran.

Monday, 17th August 1857.

On Monday, 17th August, the following botanical party met at Lamlash:—J. H. Balfour, Mr. M'Taggart Cowan, Mr. Robert Cowan, Mr. Deas, Mr. Linton, Mr. Macfarlan.

Tuesday, 18th August 1857.

The party proceeded this morning by the steamboat at 5.45 to Corrie, and after breakfasting at Mrs. Jamieson's Inn proceeded to Sannox, where they had a bathe before going up Glen Sannox. On the way saw a large adder, walked up on the northern side of the glen, and at the upper part near Caisteal Abhail gathered *Alchemilla conjuncta*. It seems to be a new variety of *A. alpina*, for plants were found in which the leaflets were seemingly adherent. Gathered also a number of common plants as well as *Saxifraga stellaris* and *Oxyria reniformis*. The Glen is very poor as regards species, and the heather and slippery rocks render a walk through it very toilsome. Ascended a difficult gully by south side of Caisteal Abhail and had some difficulty in reaching the top. The day was very fine, and the party had an excellent view from the summit of Goatfell. Some clouds rested now and then on the different summits, which marred the effect. Ben Lomond clearly seen, Jura, Ireland, Mull of Cantyre, Mull of Galloway. Many lichens were collected on the summit, also *Salix herbacea* and *Carex rigida*. Descended by the steep side from the summit to Brodick. On the shore collected *Sinapis monensis*, *Mertensia maritima*, *Fucus vesiculosus*, varieties.

After refreshments at Springbank, reached Lamlash about 8 p.m.

Wednesday, 19th August 1857.

This day the party was joined by Mr. Stevenson, and proceeded about 9 a.m. along the Lamlash shore to Whiting Bay. Visited the Nameless Rill of Mr. Waller Paton.



## Gathered :—

Anagallis tenella	Scirpus Savii
Atriplex arenaria	„ maritimus
„ Babingtonii	Hymenophyllum tunbridgense
Salicornia herbacea	Lastrea Foeniseii
Salsola Kali	Polypodium Phegopteris

On the roadside to Whiting Bay there is abundance of *Hypericum dubium*. Near Whiting Bay Mr. Robert Cowan picked *Cichorium Intybus*.

After bathing at Whiting Bay, party joined the "Isle of Arran" steamer and proceeded round the island to Loch Ranza, where they landed about 5 p.m. On landing at Loch Ranza five took up their quarters at the inn, while the Messrs. Cowan went to Dr. Hannie's house.

The party went up the glen from Loch Ranza by the waterfall and gathered specimens of *Pyrus fennica*.

*Thursday, 20th August 1857.*

After breakfast, started about 8 a.m. from Loch Ranza and walked along the shore by Catacol Bay to Dugary, Imachar (where we rested), King's Caves, Drumadoon, and Blackwaterfoot, which was reached about 6.30 p.m. The day was very warm and oppressive, and the party bathed three times on the way.

Among the plants gathered were the following :—

Crambe maritima (shore Imachar)	Asplenium marinum (rocks at King's Hill)
Convolvulus Soldanella (shore at Blackwaterfoot)	Cystopteris fragilis (Loch Ranza)
Stachys arvensis	Osmunda regalis (Loch Ranza)
Polygonum Raii (shore at Blackwaterfoot)	

After resting at Blackwaterfoot and taking tea, the party started at 7.30 p.m. across the hill, and had some difficulty in reaching the Lag road, along which they proceeded to Lamlash, which was reached about 11 p.m.

The distance accomplished this day was 40 miles, and all were very much knocked up.

*Friday, 21st August 1857.*

This day was spent chiefly in dredging off Holy Island in company with Dr. Carpenter. Many good animals were got as well as some sea-weeds. On the island abundance of *Arctostaphylos Uva-ursi*. In the evening occupied in fishing.

*Saturday, 22nd August 1857.*

The party broke up this day; most returned to Ayrshire or Glasgow, while Mr. M'Taggart Cowan remained at Invercloy. Some plants were picked along the shore. I visited Dr. Carpenter at the island and examined the flora partially.

*Tuesday, 25th August 1857.*

Mr. Hugh Cowan, from Thornton, and Mr. M'Taggart Cowan met me at Springbank, and, after picking some sand plants at Brodick, walked up Glen Cloy, where we gathered:—

Sedum Rhodiola	Asplenium viride
Galium boreale	Cystopteris fragilis
Hymenophyllum Wilsoni (in great abundance)	Polystichum aculeatum
	Lastrea Foeniceii

and several other less rare plants.

Returned about 6 p.m. Mr. Robert Cowan gathered on Ben Gornic the following plants:—

Viola palustris	Galium saxatile
Alchemilla alpina	Vaccinium Vitis-Idæa
„ conjuncta	Veronica officinalis
Saxifraga stellaris	Salix herbacea
Sedum Rhodiola	Juniperus nana

*Thursday, 17th September 1857.*

Party consisting of Archibald and John Stevenson, William Carpenter, and J. H. Balfour left Lamlash at 3 p.m. and walked by Whiting Bay and Dippin to Kildonan and thence to Lag. Called on Mr. Macrae at East Kilmorie, near Pladda, at

whose manse we saw beautiful specimens of *Lavatera arborea*, a plant commonly cultivated in Arran, perhaps originally from Ailsa Craig, also *Fuchsia*, which forms hedges in many places. *Hydrangea* very vigorous.

The following were some of the plants seen :—

Montia fontana	Verbascum Thapsus
Hypericum Androsæmum	Scutellaria galericulata
Geranium pratense	Atriplex arenaria
Agrimonia Eupatoria	Suaeda maritima
Cotyledon Umbilicus	Carex vulpina
Sedum anglicum	Asplenium marinum
Anthemis nobilis (near cottage door, Kildonan)	Ramalina scopulorum (abundant on trap rocks at Dippin)
Solanum Dulcamara	

Numerous mushrooms gathered. Remarkable red *Salicornia herbacea* near Whiting Bay.

In the evening took up our quarters in Lag Inn, where we were well and cheaply accommodated. Reached Lag at 8.30 p.m. Met Mr. Spittal, who had been geologising in the district and who accompanied us during the rest of our trip.

Friday, 18th September 1857.

Breakfasted at Lag. Left Lag Inn about 8 a.m., and walked by the shore to Blackwaterfoot. On the way gathered a large quantity of :—

Ranunculus hederaceus	Anagallis tenella
Cakile maritima	Mertensia maritima
Silene maritima	Convolvulus Soldanella
Geranium pratense	Salsola Kali
Rosa spinosissima	Polygonum Hydropiper
Eryngium maritimum	„ Persicaria
Apium graveolens	„ lapathifolium
Haloscias scoticum	Scirpus maritimus
Matricaria maritima	Triticum laxum
Anagallis arvensis	Agaricus campestris

Numerous *Rubi* varying in the quality of fruit ; *Rubus discolor* later in fruit than others, fruit highly-flavoured.

At Blackwaterfoot went to the fine basaltic column at Drumadoon and thence to King's Caves.

Gathered :—

Asplenium	Adiantum-nigrum	Osmunda	regalis
„	marinum	Ramalina	scopulorum (cover-
„	Trichomanes		ing the basaltic rocks at
Scolopendrium	vulgare		Drumadoon)

Returned to Blackwaterfoot. Most of the party returned by cars to Lamlash, while Dr. B., Mr. J. Stevenson, and Mr. Spittal walked to Shedog and Shisken Church, and then by the Clachan Glen to Glen Benlister, and thence to Lamlash, which was reached about 8 p.m. after three hours' walking from Blackwaterfoot.

*Tuesday, 22nd September 1857.*

Walked by coast to Whiting Bay, Dippin, Kilmorie, Lag, getting the usual plants, *Hypericum dubium* being the rarest. From Lag walked in the evening by the shore back to Kilmorie, gathering on the way numerous specimens of *Agaricus campestris*.

On the rocks near Bennan Head :—

Silene	maritima	Pulicaria	dysenterica
Vicia	sylvatica (still in flower, as well as specimens in fruit, especially on shingle of the shore)	Armeria	maritima
		Plantago	maritima

Reached Mr. Macrae's house at Kilmorie Manse, where I remained for the night.

*Wednesday, 23rd September 1857:*

After breakfast visited Stracy rocks with Mr. Macrae and his son Donald. Gathered :—

Geranium	sanguineum	Asplenium	marinum (on trap rocks at Stracy)
Cotyledon	Umbilicus	Equisetum	Telmateia (some specimens between 6 and 7 feet high). This plant very abundant in the district
Carlina	vulgaris		
Atriplex	arenaria		
„	Babingtonii		
Phragmites	communis		

Peculiar red matter on rocks at Bennan.

Visited the island of Pladda in a boat, gathered *Agaricus campestris* and *Anthemis nobilis*, no other plants of interest. Visited the lighthouse. Joined the party for the steamer "Isle of Arran," and returned to Lamlash about 4 p.m. Sea rather rough and weather stormy.

*Friday, 26th September 1857.*

Visited the hill near Lamlash on the south of the road to Lag. Ascended by a mountain stream, reached the summit, whence a fine view was obtained, Goatfell and hills near it well seen, islands on Clyde, Ayrshire, Blackwaterfoot, Argyllshire. Descended by a deep ravine which joins the glen to south of Lag Road. This ravine very deep, steep sides, and yielded some good plants, as:—

Cardamine hirsuta (6 stamens and long style)	Athyrium Filix-femina
Saxifraga hypnoides (in pro- fusion)	Cystopteris fragilis
Festuca ovina vivipara	Lastrea Oreopteris
Hymenophyllum Wilsoni	" Filix-mas
Blechnum boreale	" dilatata
Asplenium Trichomanes (in great profusion)	Polypodium vulgare
	" Dryopteris
	" Phegopteris

Numerous lichens and mosses. On the hill was seen a peculiar form of *Lastrea Filix-mas*. Numerous diatoms in slimy matter on the rocks. *Nostoc* also seen.

---

EXCURSIONS IN 1858.

**Canal, Slateford, Colinton, Swanston.**

*Saturday, 15th May 1858.*

Party of about 80-100 met at the Canal Basin at 10 a.m., and proceeded by the banks of the Canal to Slateford, Colinton, and Swanston, returning between 4 and 5 p.m.

Among the plants gathered were the following :—

Anemone nemorosa	Lamium purpureum
Ranunculus auricomus	„ album
„ Ficaria	Daphne Laureola
Caltha palustris	Carpinus Betulus
Corydalis lutea	Salix alba
Sisymbrium Thalianum	„ cinerea
Viola sylvatica	„ Helix
Geranium phæum	Orchis mascula
Staphylea pinnata	Allium ursinum
Prunus communis	Endymion nutans
„ Avium	Lilium Martagon (not in flower)
Pyrus Aria	Arum maculatum
„ Aucuparia	Potamogeton crispus
„ Malus	Carex vulgaris
Ribes Grossularia	„ glauca
„ rubrum	Polystichum aculeatum
Myrrhis odorata	Equisetum arvense
Adoxa Moschatellina	Grimmia pulvinata
Tussilago Farfara	Lepraria flava
Petasites vulgaris	Scyphophorus pyxidatus
Doronicum plantagineum	Polyporus versicolor
Vinca minor	

### Penicuik, Esk Mill, Auchindinny, Roslin.

*Saturday, 22nd May 1858.*

Party of about 90 met at the North British Railway Station at 9 a.m. and proceeded to Penicuik, thence to Valleyfield and visited Mr. Cowan's paper works, thence went by banks of Esk to Esk Mill, Auchindinny, and Roslin, returning by train leaving Roslin at 5.29 p.m., and reaching Edinburgh at 6.15 p.m. Return third-class tickets, 1s. 3d.

Among the plants collected were the following :—

Ranunculus auricomus	Prunus Avium
Trollius europæus	„ Cerasus (between Powder Mill and Roslin on western bank of river)
Cardamine amara	Rubus saxatilis (Auchindinny)
Viola tricolor	
Oxalis Acetosella (pink)	
Staphylea pinnata (Roslin)	

Pyrus Aucuparia	Carex paniculata
" Malus	" præcox
Saxifraga granulata	" sylvatica
Chrysosplenium alternifolium	" pendula
Myrrhis odorata	" paludosa
Sanicula europæa	Melica uniflora
Adoxa Moschatellina	Polypodium Dryopteris
Doronicum Pardalianches	" Phegopteris
(Roslin)	Equisetum umbrosum
Vaccinium Myrtillus	" arvense
Primula veris	" sylvaticum
Veronica montana	" palustre
Lamium amplexicaule	Bryum punctatum
Salix Helix	Polytrichum commune
" cinerea	Dicranum scoparium
" aquatica	Jungermannia asplenioides
" alba	Evernia prunastri
" Caprea	Calicium chrysocephalum
Neottia Nidus-avis	Polyporus versicolor

**Burntisland, Aberdour, Donibristle, Kinghorn.**

*Saturday, 29th May 1858.*

Party of about 60 met at 10 a.m. at station of Edinburgh, Perth and Dundee Railway, and proceeded to Burntisland. Walked by shore to Aberdour, and returned by road to Burntisland for boat at 5 p.m., railway to Edinburgh at 6. Return ticket, 9d. Some went to Donibristle, others to Kinghorn.

Among the plants gathered were :—

Berberis vulgaris	Armeria maritima
Lepidium campestre	Primula veris
Cerastium trigynum	Vinca major
Sagina maritima	Solanum Dulcamara (scarcely in flower)
Geranium phæum (Burnt- island)	Linaria Cymbalaria
" sanguineum	Antirrhinum majus (Aberdour Castle, scarcely in flower)
Astragalus hypoglottis	Veronica agrestis
Smyrnum Olusatrum (King- horn)	" arvensis
Centranthus ruber	" serpyllifolia
Valerianella olitoria	" Chamædrys



Veronica Beccabunga	Carex gluca
Salvia Verbenaca	„ præcox
Plantago Coronopus	„ distans
Hippophaë rhamnoides	„ extensa
Parietaria erecta	Aira præcox
Populus alba (leaf)	Sclerochloa loliacea
Ornithogalum umbellatum	Asplenium Adiantum-nigrum
Tulipa sylvestris	„ Ruta-muraria
Carex arenaria	Botrychium Lunaria
„ vulgaris	Exidia Auricula-Judæ

**Mid-Calder, Meadowbank, Kames Hill, Dalmahoy Hill,  
Ravelrig, Currie.**

*Saturday, 5th June 1858.*

Party of 90 met at the Caledonian Railway Station at 10.30 a.m. and proceeded to Mid-Calder, thence walked to Meadowbank woods, Kames Hill, Dalmahoy Hill, Ravelrig, Water of Leith, and Currie, returning from Currie by train at 6.9 p.m. Return tickets, 10d.

The day was remarkably fine, and there was a splendid view from the top of Kames Hill.

Among the plants gathered were the following :—

Ranunculus aquatilis	Prunus Padus
„ trichophyllus	Geum intermedium
Trollius europæus	Fragaria elatior
Draba verna	Pyrus Aucuparia
Sisymbrium Thalianum	Ribes nigrum
Viola palustris	Adoxa Moschatellina
„ sylvatica	Linnaea borealis
„ canina	Antennaria dioica
„ tricolor	Pyrola minor
„ arvensis	Menyanthes trifoliata
Cerastium semidecandrum	Anchusa sempervirens
Stellaria uliginosa	Myosotis palustris
Moehringia trinervia	Pinguicula vulgaris
Sagina subulata	Mentha viridis
Geranium sylvaticum and var. (paler flower)	Lamium amplexicaule
Geranium columbinum	„ intermedium
Vicia sativa, var. Bobartii	Carpinus Betulus