

ROTORUA BOTANICAL SOCIETY 25TH ANNIVERSARY CELEBRATIONS

Paul Cashmore

On Saturday 14 Feb 2009 the RBS held its 25th anniversary celebrations in Rotorua centred on a field trip to Waimangu following by a function held at Te Puea Rd at the residence of Sarah Beadel and Willie Shaw. This is a brief summary of the events.

We were blessed with a lovely summer's day for our trip to Waimangu with a good turnout of 17 people, mostly Rotorua members but with a few from further afield such as Hamilton and Auckland. The group had spent the majority of the morning wandering through the valley and taking the opportunity to traverse one of the newer tracks over Mt Haszard which some people had not done before. Mike Wilcox from Auckland Botanical Society was able to assist with identification of some of the more difficult species such as some of the grasses we encountered while Chris Ecroyd's knowledge of the vegetation changes in Waimangu over the last few decades was an invaluable insight into this dynamic geothermal environment.

Chris commented later in a note to Harvey James, who manages the Waimanu Volcanic Valley "it has been very interesting comparing parts of the Waimangu Valley with what we can remember from 25 years ago. Warbrick Terrace, for example, has changed very dramatically. I can remember the small terrace being very colourful with just a small stream flowing past it. While the actual terrace has lost most of its colour there is now a very large colourful area surrounding the terrace. The new terrace formation across the stream and just upstream of Warbrick Terrace is really special. Other areas of the valley have shown similar changes for the better."

He also noted "we observed some interesting changes in the vegetation. There are now many more clumps of the thermal umbrella fern (*Dicranopteris linearis*). I am sure that this was only behind Warbrick Terrace but there are now 6 or 7 clumps scattered through the valley. Although this fern has increased, unfortunately another fern the giant

hypolepis, *Hypolepis dicksonioides*, seems to have disappeared and I can offer no good explanation for this.”

With lunch at Warbrick Terrace we headed to the edge of Lake Rotomahana to be met by Harvey James from Waimangu Volcanic Valley who offered us the opportunity to join the boat trip on Rotomahana. This was an unexpected bonus and gave people an opportunity to examine the lake margin thermal areas and post-Tarawera regeneration along with the vegetation of Patiti Island in the middle of the lake.

In the mid afternoon we headed back up the valley with most of the party walking but splitting into two groups and heading different ways. Everyone regrouped at carpark and headed home to prepare for the evening celebration which started at 6pm.

The evening started with snacks and drinks as the sun set over Rotorua city. About 23 members and partners gathered for the celebration function. With a great range of food and two BBQs working overtime there was no danger of anyone going hungry. A lovely dinner was had followed by the speeches.



Participants on the RBS 25th anniversary Waimangu field trip – 14th Feb 2009.

Mike Wilcox spoke on behalf of the Auckland Botanical Society and also reminisced about the early days of the RBS when he was an active member resident in Rotorua in the 1980s. Mike's thoughts were echoed by Dr Bruce Clarkson – who had come from Hamilton for the event with his wife Bev, both of whom had been founding members of the RBS. Bruce talked about the value of botanical societies and spoke fondly of the 'early' days of the RBS. Further comment came from Willie Shaw and Chris Ecroyd as other founding members. This was matched by an address from the current president John Hobbs to round the speeches off. The final formality was to sing "happy birthday", blow out the candles and to cut the birthday cake – an honour given to our current president John Hobbs.

With the formalities complete guests were left to chat and watch a continuous slide show of historical and recent trip photos compiled for the event which proved to be of great entertainment as members tried to pick the location and name the people in the photos.

It was unfortunate that not too many out of town members made it to the 25th celebration and there were some key faces missing from the event including John Nicholls, Mark Smale, Nancy Adye and Bev Woolley, to name but a few. However for those who did make it the effort to come was a rewarding night and a memorable one too. Thanks must go to the committee who worked hard to put together the event. On behalf of the society the biggest thanks however must go to Sarah Beadel and Willie Shaw for providing their wonderful new house as a very suitable venue for the function and for organising the vast majority of the food and drink provided on the night. We look forward to the 50th celebrations!! Long live the Rotorua Botanical Society!



Twin chefs slaving over a hot BBQ at RBS 25th.



Guests enjoying the fine wine and food.



Founding member Dr Bruce Clarkson reminiscing about early days of RBS.



RBS president John Hobbs blowing out the candles on the birthday cake.

PLANT SPECIES LIST FOR WAIMANGU SCENIC RESERVE

Compiled by John F.F. Hobbs

from a list by C. E. Ecroyd, March 1999, with additions from

Rotorua Botanical Society visits 2001, 2004 and 2009

KEY:

* = plant introduced into New Zealand

additions dated on right hand side of list, as below

2001_0609 added after Rot Bot Soc Field Trip 9th June 2001

2004_0529 added after Rot Bot Soc Field Trip 29th May 2004

2009_0214 added after Rot Bot Soc Field Trip 14th February 2009

Fern Allies

Lycopodiella cernua

Lycopodiella varia

Lycopodium volubile

Psilotum nudum

Tmesipteris sp.

Common Name

arching clubmoss

hanging clubmoss

climbing clubmoss

fork fern

Ferns

Adiantum cunninghamii

common maidenhair

Adiantum hispidulum

rosy maidenhair

2009_0214

Asplenium bulbiferum s.s.

hen and chickens fern

Asplenium flaccidum subsp. *flaccidum*

hanging spleenwort

Asplenium gracillimum

spleenwort

Asplenium oblongifolium

shining spleenwort

Asplenium polyodon

sickle spleenwort

Azolla pinnata?

azolla

Blechnum chambersii

nini

Blechnum fluviatile

kiwakiwa

Blechnum novae-zelandiae

kiokio

Blechnum penna-marina

little hard fern

Blechnum procerum

small kiokio

Blechnum vulcanicum

korokio

Cheilanthes distans

woolly cloak fern

Cheilanthes humilis

rock fern

Christella dentata

soft fern

Ctenopteris heterophylla

Cyathea dealbata

silver fern

Cyathea medullaris

mamaku

Cyclosorus interruptus

Deparia petersenii subsp. *congrua*

2001_0609

Dicksonia fibrosa

whkiponga

Dicksonia squarrosa

wheki

<i>Dicranopteris linearis</i>	thermal umbrella fern
<i>Diplazium australe</i>	
<i>Doodia media</i> subsp. <i>australe</i>	rasp fern
* <i>Dryopteris felix-mas</i>	male fern
<i>Gleichenia microphylla</i>	parasol fern
<i>Histiopteris incisa</i>	water fern
<i>Hymenophyllum dilatatum</i>	filmy fern
<i>Hymenophyllum multifidum</i>	filmy fern
<i>Hymenophyllum sanguinolentum</i>	piripiri
<i>Hymenophyllum scabrum</i>	filmy fern
<i>Hypolepis ambigua</i>	
<i>Hypolepis dicksonioides</i>	giant hypolepis
<i>Lastreopsis</i> sp. (<i>glabella</i> or <i>microsora</i> ?)	
<i>Microsorium pustulatum</i>	hound's tongue
<i>Nephrolepis flexuosum</i>	thermal ladder fern
* <i>Osmunda regalis</i>	royal fern
<i>Paesia scaberula</i>	ring fern
<i>Pellaea rotundifolia</i>	tarawera
<i>Pneumatopteris pennigera</i>	gully fern
<i>Polystichum wawranum</i>	shield fern
<i>Polystichum silvaticum</i>	shield fern
<i>Polystichum vestitum</i>	prickly shield fern
<i>Pteridium esculentum</i>	bracken
<i>Pteris tremula</i>	turawera
<i>Pteris vittata</i>	
<i>Pyrrosia eleagnifolia</i>	leather-leaf fern
<i>Schizaea bifida</i>	forked comb fern

Gymnosperms

* <i>Larix decidua</i>	larch
* <i>Pinus contorta</i>	contorta pine
* <i>Pinus nigra</i>	Corsican pine
* <i>Pinus radiata</i>	radiata pine
* <i>Pinus strobus</i>	strobus pine
* <i>Pseudotsuga menziesii</i>	Douglas-fir

Dicotyledonous Trees and Shrubs

<i>Aristotelia serrata</i>	wineberry	
* <i>Berberis glaucocarpa</i>	barberry	2009_0214
<i>Brachyglottis repanda</i>	rangiora	
* <i>Buddleja davidii</i>	buddleia	
* <i>Chamaecytisus palmensis</i>	tree lucerne	
<i>Coprosma robusta</i>	karamu	
<i>Coriaria arborea</i> var. <i>arborea</i>	tutu	

* <i>Cotoneaster franchetii</i>	cotoneaster	2009_0214
* <i>Cytisus scoparius</i>	broom	
<i>Dracophyllum strictum</i>	totorowhiti	
<i>Dracophyllum strictum</i> x <i>D. subulatum</i>		
<i>Dracophyllum subulatum</i>	monoao	
* <i>Erica lusitanica</i>	Spanish heath	
<i>Fuchsia excorticata</i>	kotukutuku, tree fuchsia	
<i>Gaultheria antipoda</i>	snowberry	
<i>Gaultheria antipoda</i> x <i>G. oppositifolia</i>		
<i>Gaultheria oppositifolia</i>	niniwa	
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange	
<i>Griselinia littoralis</i>	broadleaf	
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko	
<i>Ileostylus micranthus</i>	mistletoe	
<i>Knightia excelsa</i>	rewarewa	
<i>Kunzea ericoides</i> var. <i>ericoides</i>	kanuka	
<i>Kunzea ericoides</i> var. <i>microflora</i>	prostrate kanuka	
<i>Leptecophylla juniperina</i>	prickly mingimingi	
<i>Leptospermum scoparium</i>	manuka	
<i>Leucopogon fasciculatus</i>	mingimingi	
<i>Leucopogon fraseri</i>	patotara	
* <i>Lupinus arboreus</i>	tree lupin	
* <i>Malus</i> x <i>domestica</i>	apple	2001_0609
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe	
<i>Metrosideros excelsa</i>	pohutukawa	
<i>Metrosideros robusta</i>	rata	2004_0529
<i>Myrsine australis</i>	mapou	2001_0609
<i>Olearia furfuracea</i>	akepiro	
* <i>Paraserianthes lophantha</i>	brush wattle	
<i>Pittosporum eugenioides</i>	lemonwood	
<i>Pittosporum tenuifolium</i> ssp. <i>colensoi</i> (planted?)	kohuhu	
<i>Pittosporum tenuifolium</i> ssp. <i>tenuifolium</i>	kohuhu	
<i>Pomaderris amoena</i>	tauhinu	
* <i>Populus</i> sp.	poplar	
* <i>Prunus persica</i>	peach	2001_0609
* <i>Prunus</i> x <i>domestica</i>	plum	2001_0609
<i>Pseudopanax arboreus</i> var. <i>arboreus</i>	five finger	
* <i>Rosa rubiginosa</i>	sweet brier	
* <i>Salix cinerea</i>	grey willow	
<i>Schefflera digitata</i>	pate	
* <i>Teline monspessulana</i>	Montpellier broom	
* <i>Ulex europaeus</i>	gorse	2001_0609
<i>Weinmannia racemosa</i>	kamahi	

Dicotyledonous Lianes

<i>Clematis paniculata</i>	clematis
<i>Muehlenbeckia australis</i>	pohuehue
* <i>Passiflora tripartita</i> var. <i>mollissima</i> ?	banana passion fruit
* <i>Rubus fruticosus</i> agg.	blackberry

Dicotyledonous Herbs

<i>Acaena anserinifolia</i>	piripiri	
<i>Acaena novae-zealandiae</i>	piripiri	
* <i>Achillea millefolium</i>	yarrow	
* <i>Anagallis arvensis</i>	scarlet pimpernel	
* <i>Aster subulatus</i>	sea aster	
* <i>Bidens frondosa</i>	beggars' ticks	
* <i>Capsella bursa-pastoris</i>	shepherd's purse	
<i>Cardamine debilis</i>	New Zealand bitter cress	
* <i>Carduus nutans</i>	nodding thistle	
* <i>Centaureum erythraea</i>	centaury	
* <i>Cerastium fontanum</i> subsp. <i>vulgare</i>	mouse-ear chickweed	
* <i>Cerastium glomeratum</i>	annual mouse-ear chickweed	
* <i>Cirsium arvense</i>	Californian thistle	
* <i>Cirsium vulgare</i>	Scotch thistle	
* <i>Conyza sumatrensis</i>	broad-leaved fleabane	
* <i>Conyza bilbaoana</i>	Canadian fleabane	
* <i>Conyza parva</i>	smooth fleabane	
* <i>Crepis capillaris</i>	hawksbeard	
* <i>Digitaria purpurea</i>	foxglove	2009_0214
<i>Drosera auriculata</i>	sundew	
<i>Elatine gratioloides</i>	waterwort	2004_0529
<i>Epilobium brunnescens</i> subsp. <i>minutiflorum</i>	creeping willow-herb	
* <i>Epilobium ciliatum</i>	tall willow-herb	
* <i>Epilobium ciliatum</i> × <i>E. pallidiflorum</i>		
<i>Epilobium cinereum</i>	willow-herb	2009_0214
<i>Epilobium nerteroides</i>	creeping willow-herb	
<i>Epilobium nummularifolium</i>	creeping willow-herb	
* <i>Epilobium obscurum</i>	tall willow-herb	
<i>Epilobium pendunculare</i>	creeping willow-herb	
<i>Epilobium rotundifolium</i>	round-leaved willow-herb	
* <i>Erectites hieraciifolia</i>	American fireweed	
<i>Euchiton collinus</i>	creeping cudweed	
<i>Euchiton sphaericus</i>	Japanese cudweed	
* <i>Galium aparine</i>	cleavers	
* <i>Galium divaricatum</i>	slender bedstraw	2009_0214
<i>Galium propinquum</i>	marsh bedstraw	
* <i>Gamochaeta coarctata</i>	cudweed	

* <i>Gamochaeta coarctata</i> × <i>Pseudognaphalium luteoalbum</i>		
<i>Glossostigma elatinooides</i>		2001_0609
<i>Gunnera monoica</i>	gunnera	
<i>Haloragis erecta</i>		2001_0609
<i>Hydrocotyle microphylla</i>	hydrocotyle	
* <i>Hypochoeris radicata</i>	catsear	
* <i>Lactuca virosa</i>	arid lettuce	2001_0609
* <i>Leontodon taraxacoides</i>	hawkbit	
<i>Lilaeopsis novae-zelandiae</i>		2004_0529
<i>Limosella lineata</i>	mudwort	
* <i>Linum catharticum</i>	purging flax	
* <i>Lotus pedunculatus</i>	lotus	
* <i>Lotus suaveolens</i>	hairy birdsfoot trefoil	
* <i>Lycopus europaeus</i>	gypsywort	2005_1218
* <i>Ludwigia palustris</i>	water purslane	
* <i>Mentha pulegium</i>	pennyroyal	
* <i>Mycelis muralis</i>	wall lettuce	
* <i>Myosotis scorpioides</i>	water forget-me-not	
<i>Myriophyllum propinquum</i>	water milfoil	
<i>Nertera depressa</i>		
* <i>Orobanche minor</i>	broomrape	
* <i>Oxalis corniculata</i>	horned oxalis	
<i>Oxalis rubens?</i>	oxalis	
* <i>Parentucellia viscosa</i>	tarweed	
* <i>Pelargonium inodorum</i>	kopata	
<i>Persicaria decipiens</i>	swamp willow weed	
* <i>Persicaria maculosa</i>	willow weed	
* <i>Phytolacca octandra</i>	inkweed	
* <i>Plantago australis</i>	swamp plantain	
* <i>Plantago lanceolata</i>	ribwort	
* <i>Plantago major</i>	broad-leaved plantain	
* <i>Polygonum aviculare</i>	wireweed	
* <i>Portulaca oleracea</i>	purslane	
* <i>Prunella vulgaris</i>	selfheal	
<i>Pseudognaphalium luteo-album</i> agg.	Jersey cudweed	
<i>Ranunculus reflexus</i>	buttercup	
* <i>Ranunculus repens</i>	creeping buttercup	
* <i>Nasturtium officinale</i>	watercress	
* <i>Rumex acetosella</i>	sheep's sorrel	
* <i>Rumex obtusifolius</i>	broad-leaved dock	
* <i>Sagina procumbens</i>	pearlwort	2009_0214
* <i>Senecio bipinnatisectus</i>	Australian fireweed	
* <i>Senecio jacobaea</i>	ragwort	
<i>Senecio minimus</i>	fireweed	

<i>Solanum americanum</i>	small-flowered nightshade	
* <i>Solanum nigrum</i>	black nightshade	
* <i>Sonchus asper</i>	prickly sow thistle	
* <i>Sonchus oleraceus</i>	puha, sow thistle	
<i>Stellaria parviflora</i>	native chickweed	2009_0214
* <i>Stellaria media</i>	chickweed	
* <i>Taraxacum officinale</i>	dandelion	
* <i>Trifolium arvense</i>	haresfoot trefoil	2009_0214
* <i>Trifolium dubium</i>	suckling clover	
* <i>Trifolium pratense</i>	red clover	
* <i>Trifolium repens</i>	white clover	
* <i>Verbascum thapsus</i>	woolly mullein	2009_0214
<i>Wahlenbergia violacea</i>	harebell	

Monocotyledonous Trees, Shrubs and Lianes

<i>Cordyline australis</i>	cabbage tree
<i>Rhopalostylis sapida</i>	nikau

Orchids

<i>Acianthus sinclairii</i>	pixie cap
<i>Earina autumnalis</i>	raupeka
<i>Earina mucronata</i>	peka-a-waka
<i>Gastrodia cunninghamii</i>	potato orchid
<i>Microtis parviflora</i>	slender onion orchid
<i>Microtis unifolia</i>	common onion orchid
<i>Thelymitra longifolia</i>	common sun orchid

Grasses

* <i>Agrostis capillaris</i>	brown top
* <i>Anthoxanthum odoratum</i>	sweet vernal
* <i>Avena barbata</i>	slender oat
* <i>Axonopus affinis</i>	narrow-leaved carpet grass
<i>Cortaderia fulvida</i>	toetoe
<i>Cortaderia toetoe</i>	toetoe
* <i>Cortaderia selloana</i>	pampas grass
* <i>Cynodon dactylon</i>	Indian doab
* <i>Dactylis glomerata</i>	cocksfoot
* <i>Deyeuxia avenoides</i>	mountain oat grass
* <i>Dichelachne crinata</i>	plume grass
* <i>Digitaria sanguinalis</i>	summer grass
* <i>Elytrigia repens</i>	couch
* <i>Eragrostis brownii</i>	bay grass
* <i>Holcus lanatus</i>	Yorkshire fog
<i>Microlaena stipoides</i>	meadow rice grass

* <i>Miscanthus nepalensis</i>	Himalayan fairy grass	
* <i>Paspalum dilatatum</i>	paspalum	
* <i>Phleum pratense</i>	timothy	
<i>Poa anceps</i> subsp. <i>anceps</i>	broad-leaved poa	
* <i>Poa trivialis</i>	rough meadow grass	
* <i>Polypogon monspeliensis</i>	beard grass	
<i>Rytidosperma gracile</i>	danthonia	
<i>Rytidosperma racemosa</i>	danthonia	2009_0214
* <i>Setaria gracilis</i>	knot-root bristle grass	
* <i>Sporobolus africanus</i>	ratstail	

Sedges

<i>Carex dissita</i>	flat leaved sedge	
<i>Carex virgata</i>	swamp sedge	
<i>Carex geminata</i>	rautahi	
* <i>Cyperus eragrostis</i>	umbrella sedge	
<i>Cyperus ustulatus</i>	giant umbrella sedge	
<i>Eleocharis acuta</i>	sharp spike-sedge	
<i>Eleocharis sphacelata</i>	tall spike-sedge	
<i>Morelotia affinis</i>		
<i>Schoenoplectus tabernaemontani</i>	lake clubrush	
<i>Uncinia banksii</i>	hook grass	2004_0529
<i>Uncinia uncinata</i>	hook grass	

Rushes

* <i>Juncus articulatus</i>	jointed rush	
<i>Juncus australis</i>	leafless rush	
<i>Juncus edgariae</i>	leafless rush	
* <i>Juncus effusus</i>	soft rush	
<i>Juncus pallidus</i>	giant rush	
<i>Juncus planifolius</i>	flat-leaved rush	
* <i>Juncus tenuis</i>	track rush	

Other Moncotyledonous Herbs

* <i>Crocoshia</i> x <i>crocoshii</i> flora	montbretia	
<i>Dianella nigra</i>	blueberry	
<i>Lemna minor</i>	duckweed	
<i>Phormium tenax</i>	flax	
* <i>Spirodella punctata</i>	purple-backed duckweed	
* <i>Sisyrinchium</i> "blue"		2005_1218
<i>Typha orientalis</i>	raupo	