



## Waikato Botanical Society Inc.

Newsletter No. 22, April 2006

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<p><b>DROSERAS TO PERAXILLAS</b> <b>WAITAANGA FOREST AND NG TUCKER RESERVE</b> <b>21<sup>ST</sup> and 22<sup>ND</sup> FEBRUARY 2006</b></p>
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The opportunity presented to tramp to the civil aviation beacon to watch for bats at the northwest end of the valley on Friday evening. Unfortunately the Hamilton ladies missed this great experience, so hopefully there will be another time for them. The setting sun over Taranaki was spectacular and a single bat entertained us until darkness forced us back to the house.

Day one was the Waitaanga South Forest for the first stop. Irene Sherwin, a local farmer joined us, providing 4WD transport across the farmland. The track followed the old forestry railroad along the Waitaanga Stream. The first wire bridge where the *Peraxilla colensoi* was still in flower, (despite the host branch looking very frail) was the destination for lunch. There were good specimens of *Raukaua anomalous*, *Neomyrtus pedunculata*, *Dracophyllum strictum* and of special significance, a plant of *Gastrodia* "long column" and *Acianthus sinclairi* along the way. Several fungi species were noted including *Russula macrocystidiata*, *Ramaria* sp., *Gauteria novae-zelandiae*, and *Hygrocybe firma*. *Drymoanthus adversus* was spotted on the way out.

We then called to another bush block on the corner of Waitaanga Sth and SH40 to find *Gaultheria paniculata*. A short distance from here we found *Drosera binata* in amongst sphagnum moss on the roadside. From here we called on the Tills to get exact instructions to find their immense *Peraxilla colensoi*. With the exact instructions plus a further field and gate away, we finally found this beauty. It was well protected by *Rubus cissoides*, and hanging out over the Waitaanga Stream - a possum's worst nightmare.

The evening was a very inviting Pot Luck BBQ with plenty of interesting and delicious food held at the Sherwins.

Day two was spent at the NG Tucker Scenic Reserve. The track follows a 4WD ridge-track to the Trig. We have still to "explore" the lower gullies of this reserve to complete our species list. The lunchtime stop was under a small stand of *Nestegis montana*. On the way out Karen found *Elatine gratiolooides* in a track puddle, Janica found the *Gaultheria oppositifolia*, which was hiding under a wall of *Blechnum novae-zelandiae*. Liz fortunately found another plant on the opposite side of the track as well. Stunning examples of *Pittosporum kirkii*, *P. cornifolium* and *Genoplesium (Corunastylis) nudum* were also noted in this reserve.

Grateful thanks to Barry Hartley, the Sherwins and all who joined in to make this a successful weekend. Finally, mention has to be made of the exquisite performances from Mums Tui and Bellbird, who carried on feeding their respective young with an admiring audience.

Jane Hart

Species list – NG Tucker Reserve, Waitaanga Road, Ohura (based on a list by Barry Hartley and Jane Hart with additions from Waikato Botanical Society):

<i>Acaena anserinifolia</i>	<i>Elatine gratiolooides</i>	<i>Microtis unifolia</i>
<i>Alseuosmia macrophylla</i>	<i>Freyinetia baueriana</i> subsp. <i>banksii</i>	<i>Muehlenbeckia australis</i>
<i>Anaphaloides trinerva</i>	<i>Fuchsia excorticata</i>	<i>Myrsine australis</i>
<i>Aristotelia serrata</i>	<i>Gahnia procera</i>	<i>Myrsine salicina</i>
<i>Asplenium flaccidum</i>	<i>Gahnia setifolia</i>	<i>Nertera depressa</i>
<i>Asplenium polyodon</i>	<i>Gahnia xanthrocarpa</i>	<i>Nestegis montana</i>
<i>Astelia nervosa</i>	<i>Gastrodia</i> "long column" #	<i>Nestegis cunninghamii</i>
<i>Astelia solandri</i>	<i>Gaultheria antipoda</i>	<i>Nestegis lanceolata</i>
<i>Beilschmiedia tawa</i>	<i>Gaultheria oppositifolia</i>	<i>Olearia ilicifolia</i>
<i>Blechnum chambersii</i>	<i>Gaultheria paniculata</i>	<i>Olearia rani</i>
<i>Blechnum discolor</i>	<i>Geniostoma repentre</i> var. <i>ligustrifolium</i>	<i>Paesia scaberula</i>
<i>Blechnum filiforme</i>	<i>Glossostigma</i> sp.	<i>Parsonsia capsularis</i>
<i>Blechnum fluviatile</i>	<i>Gonocarpus micranthus</i>	<i>Phormium cookianum</i>
<i>Blechnum novae-zelandiae</i>	<i>Griselinia littoralis</i>	<i>Phormium tenax</i>
<i>Brachyglottis repanda</i>	<i>Griselinia lucida</i>	<i>Pittosporum cornifolium</i>
<i>Bulbophyllum pygmaeum</i>	<i>Hebe stricta</i>	<i>Pittosporum kirkii</i>
<i>Carex coriacea</i>	<i>Hedycarya arborea</i>	<i>Pneumatopteris pennigera</i>
<i>Carex maorica</i>	<i>Helichrysum lanceolatum</i>	<i>Podocarpus hallii</i>
<i>Carpedetus serratus</i>	<i>Histiopteris incisa</i>	<i>Pratia angulata</i>
<i>Clematis paniculata</i>	<i>Holcus lanatus</i>	<i>Prumnopitys ferruginea</i>
<i>Collospermum hastatum</i>	<i>Hydrocotyle moschata</i>	<i>Pseudopanax arboreus</i>
<i>Collospermum microspermum</i>	<i>Hymenophyllum flabellatum</i>	<i>Pseudopanax crassifolium</i>
<i>Coprosma lucida</i>	<i>Hymenophyllum rarum</i>	<i>Pseudopanax laetus</i>
<i>Coprosma propinqua</i> #	<i>Hymenophyllum sanguinalentum</i>	<i>Pseudowintera axillaris</i>
<i>Coprosma rhamnoides</i>	<i>Hypolepis rufobarbata</i>	<i>Pteridium esculentum</i>
<i>Coprosma robusta</i>	<i>Isolepis haebra</i>	<i>Pteristylus</i> sp.
<i>Cordyline banksii</i>	<i>Juncus effusus</i>	<i>Pyrrosia eleagnifolia</i>
<i>Cordyline indivisa</i>	<i>Juncus</i> sp.	<i>Quintinia serrata</i>
<i>Coriaria arborea</i>	<i>Knightea excelsa</i>	<i>Ranunculus amphitrichtus</i>
<i>Cortaderia fulvida</i>	<i>Lagenifera pumila</i>	<i>Rhabdothamnus solandri</i>
<i>Corunastylis nuda</i> previously <i>Genoplesium nudum</i>	<i>Laurelia novae-zelandiae</i>	<i>Ripogonum scandens</i>
<i>Corybas trilobus</i>	<i>Leptospermum scoparium</i>	<i>Rubus cissoides</i>
<i>Cyathea dealbata</i>	<i>Leucopogon fasciculatus</i>	<i>Rumohra adiantiformis</i>
<i>Cyathea medullaris</i>	<i>Libertia micrantha</i>	<i>Schefflera digitata</i>
<i>Cyathea smithii</i>	<i>Lycopodium deuterodensum</i>	<i>Senecio minimus</i>
<i>Dacrydium cupressinum</i>	<i>Lycopodium fastigiatum</i>	<i>Sticherus cunninghamii</i>
<i>Dawsonia superba</i>	<i>Lycopodium scariosum</i>	<i>Thelymitra longifolia</i>
<i>Dianella nigra</i>	<i>Lycopodium volubile</i>	<i>Tmesipteris elongata</i>
<i>Dicksonia squarrosa</i>	<i>Meliccytus ramiflorus</i>	<i>Trichomanes reniforme</i>
<i>Dracophyllum strictum</i>	<i>Metrosideros diffusa</i>	<i>Uncinia uncinata</i>
<i>Drymoanthus adversus</i> #	<i>Metrosideros fulgens</i>	<i>Urtica incisa</i>
<i>Earina autumnalis</i>	<i>Metrosideros perforata</i>	<i>Wahlenbergia violacea</i>
<i>Earina mucronata</i>	<i>Metrosideros robusta</i>	<i>Weinmannia racemosa</i>
<i>Elaeocarpus dentatus</i>	<i>Microlaena avenacea</i>	<i>Winika cunninghamii</i>
	<i>Microsorium pustulatum</i>	
* <i>Anthoxanthum odoratum</i> - sweet vernal	* <i>Lotus pedunculata</i>	
* <i>Carduus tenuiflorus</i> - winged thistle	* <i>Mentha pulegium</i> - pennyroyal	
* <i>Centaureum erythraea</i> - centaury	* <i>Mycelis muralis</i> - wall lettuce	
* <i>Cirsium vulgare</i> - scotch thistle	* <i>Parentucellia viscosa</i> - tarweed	
* <i>Clematis vitalba</i> - old mans beard	* <i>Plantago major</i> - broad-leaved plantain	
* <i>Crocsmia X crocosmiiflora</i> - monbretia	* <i>Prunella vulgaris</i>	
* <i>Digitalis purpurea</i> - foxglove	* <i>Ranunculus repens</i> - creeping buttercup	
* <i>Erigeron karvinskianus</i> - mexican daisy	* <i>Senecio jacobaea</i> - ragwort	
* <i>Leucanthemum vulgare</i> - oxeye/moon daisy		

# added on this Botanical Society trip

**GULLY RESTORATION  
DAVE AND ANN LEE – HAMILTON  
12<sup>TH</sup> MARCH 2006**

It was very impressive to see what a great collection of interesting and rare native plants the Lees have accumulated and successfully raised in suburban Hamilton. Over 30 years they have transformed a weed ridden gully site into lush lowland forest including young rata, kohekohe and podocarp trees and a great diversity of fern and shrub species. Much of their initial planting material came from the Mamaku Ranges as a result of pine plantation clearance and they have continually added plants from all over the Waikato region and further afield.

Highlights for me included seeing mature *Streblus heterophylla* and *S. banksii* trees, the semi-prostrate *Fuchsia perscandens*, the limestone loving fern *Asplenium trichomanes*, and many small leaved shrubs including *Pittosporum turneri*, *Teucrium parifolium*, *Meliclytus alpinus*, *Aristotelia fruticosa*, *Raukaua anomalus* and many coprosma shrubs. Not to mention king fern (*Marattia salicina*) growing like a weed!

Liz Grove

**THREATENED PLANTS GARDEN WORKING BEE  
12<sup>TH</sup> MARCH 2006**

Following our visit to the Lee's gully, we returned to the University for our first working bee at the new threatened plants garden. An earlier spray with herbicide by the University grounds staff and many hands made light work of removing weeds and unwanted exotic species on our designated site. Spades, forks and loppers were wielded with much enthusiasm as a seemingly huge mass of vegetation was quickly dealt with.



Species currently being propagated are: *Pimelea tomentosa*, *Calystegia marginata*, *Sicyos australis*, *Streblus banksii*, *Hebe speciosa*, *Myosotis spathulata*, *Lepidium oleraceum*, *Picris burbridgei*, and *Rorippa divaricata*.

Our next working bee at the end of April will involve more spraying, and pricking out seedlings.

**TE MAIKA-KAWHIA  
25<sup>TH</sup>/26<sup>TH</sup> MARCH**

The weekend had two main aims: first to explore the Te Maika area for threatened plants, and also to link in to the local Maori community at Kawhia. Our group of about 15 stayed at Mokai Kainga marae which lies on the hill between Kawhia and Aotea Harbours. Nick and Linda Tuwhangai, Okeroa Ratu (Nanny Maggie) and family welcomed us to the marae late on Friday afternoon and Nick explained some of the ritual of the formal speaking (whaikorero). The family had prepared dinner for us, and we quickly realised their win in the New Zealand fried bread championships (via undercover judging) was indeed well deserved. Later during mihimihi in the meeting house, it was great to hear the diverse and interesting experiences of our group, some with particular interests in Maori plant use. Nick also talked about the origin of the marae, and the notable female ancestors you can see carved there.

Te Maika lies immediately across the harbour from Kawhia and is primarily in the guardianship of the Maori Queen and her family, with a permanent bach settlement. The main aim of the trip on Saturday was to relocate any of the several threatened or uncommon plants that had been recorded along the beach or coastal cliffs at various times in the past. These included *Euphorbia glauca*, *Austrofestuca littoralis*, *Myoporum debile* and *Brachyglottis remotifolia* (a hybrid between *B. elaeagnifolia* and *B. repanda*).

Upon arriving at Te Maika via the Kawhia Harbour ferry, we had to negotiate a wetland behind the baches lining the harbour. The plan was to access the ocean beach beyond Te Maika and adjoining wetland and then walk about 3 km along to Arataura Point.

The wetland was a hidden treasure and we spent a short time looking around. It had both estuarine and freshwater components, reflected by vegetation dominated by sea rush and raupo respectively. This wetland yielded the find of the day – a large population of the threatened fern (gradual decline), *Cyclosorus interruptus* growing amongst the raupo. Other associates included *Isachne globosa*, *Carex virgata*, *Lobelia anceps*, *Eleocharis acuta*, *E. gracilis* and *Baumea arthropphylla*. We were originally on the lookout for another threatened swamp fern, *Thelypteris confluens*, as this grows in similar raupo-dominated habitat in wetlands at Toreparu (18 km north of Te Maika) and Lake Taharoa (7 km south). However, only *Cyclosorus* was seen at Te Maika.



Very excited wetland botanists!  
The discovery of *C. interruptus* in a wetland on Te Maika peninsula.

The Te Maika wetland was in relatively good condition, however stock access and encroachment of development for housing have caused some modification to the margins. A couple of troublesome weed species were also noted, and will need to be controlled to maintain ecological integrity of the

wetland. These were cordgrass (*Spartina*), an estuarine species that had colonised a drain just inside the eastern margin, and grey willow (*Salix cinerea*) that was relatively common in the raupo vegetation type.

The beach and coastal cliffs were botanically disappointing as they were highly modified by goats and stock, and no threatened species was relocated in these habitats. We saw a number of plants which are (or have been) significant to local Maori including: the famous pohutukawa trees of K whia, harakeke, raupo, *Apium australe*; used to combat scurvy in the same way Cook's scurvy grass was, *Cortaderia* spp. and rengarenga. Unfortunately other culturally significant plants such as *Hebe speciosa* were not in evidence.

Those of our group who returned to the marae for a final feast or kai hakari on the Saturday night were treated to an amazing spread of barbecued kai, salads, freshly collected mussels from Te Maika, and acres of puddings which our hosts had prepared while we were out botanising. We did our best to do it all justice (special thanks to Bruce, Willy and the kids). The hospitality at M kai K inga was unrivalled, and it proved a wonderful base to learn about K whia plants. It would be a great pleasure to take up their invitation for a return trip at some point in the future.

Bev Clarkson & Cilla McAllum

## WETLAND RESTORATION SYMPOSIUM

We were lucky to have this symposium held in Hamilton this February at Waikato University allowing many Botanical Society members to attend. Organised by the National Wetland Trust this was mixed gathering including people from research institutions, local and central

government, consultants, voluntary organisations and members of the community all involved in wetland restoration. The symposium offered a forum for scientific researchers to present findings on some technical aspects of wetland functions and processes and we even got a hands on session on riparian and aquatic weed identification. Visiting Professor Tim Moore of Canada impressed us with the extent of peatlands in Northern America and discussed the implications of global climate change for these landscapes which play an important role storing a large amount of carbon.

We heard about many restoration projects well underway around the country including many of our local wetlands: Torehape peat bog where a previously undescribed invertebrate was recently discovered, the Rotopiko peat lakes where control of pest fish is necessary to restore macrophyte communities, the complex management issues of a complex wetland at Whangamarino and the restoration of water regimes and revegetation projects at Lake Koromatua, Lake Ngarototo and Penewaka lagoon, adjacent to Lake Waikare.

Liz Grove

### FROM THE NZPCN - CHEESEMAN SYMPOSIUM

Dear Network member

This is a first announcement of the forthcoming Network conference to be held in Auckland from 20th-22nd November 2006.

This will be the Cheeseman Symposium 2006 - to celebrate the centenary of the publication of the first full flora treatment to be published by a resident New Zealand botanist, Thomas F. Cheeseman's *Manual of the New Zealand Flora* (1906). The conference is being organised in conjunction with the New Zealand Botanical Society, Auckland Museum, Auckland Botanical Society, Landcare Research and the University of Auckland.

The registration form may be downloaded from the following link:

<http://www.nzpcn.org.nz/Documents/Registration-06.pdf>

More conference details maybe found on the Network website ([www.nzpcn.org.nz](http://www.nzpcn.org.nz)) under Conservation info/Events/Conferences or at the following link:

[http://www.nzpcn.org.nz/news\\_events/conference.asp](http://www.nzpcn.org.nz/news_events/conference.asp)

Conference session headings include:

- Early botanists
- New Zealand and Pacific Floras
- Biodiversity informatics
- Pollination and reproductive biology
- Science, conservation and conservation management

There will also be plant conservation workshops organised by the Network. A call for papers is included in the registration form above. We look forward to seeing you at the conference.

Network Council  
P.O. Box 16-102  
Wellington  
New Zealand

## AGM

### **Waikato Botanical Society AGM Minutes**

McMeekan Centre, Ruakura Research Centre, Hamilton. 5 April 2005.

Meeting opened at 7:09pm.

**Present:** Stella Rowe, John Rowe, Paul Etheredge, Kay Etheredge, Sven Johnsson, Wade Tozer, Janica Amoore, Karen Denyer, Catherine Beard, Coral Goldup, Liz Grove, Shirley Nichols (Members); Britta Deichmann, Wyne Johns (Visitors).

**Apologies:** Monica Peters

#### **Presidents Report:**

The report was read out by the President, Liz Grove and covered the highlights of the year, including the variety of trips and events that were held. Members were urged to suggest any activities they would like the Society to provide or be involved in. Thanks were extended to trip leaders and organizers and those who wrote reports for the newsletter. The efforts of the committee in running the Society and our activities were also acknowledged. Our involvement with the NZ Plant Conservation Network, the NZ Association for Environmental Education and the Hamilton Environment Centre continues and enables us to be involved with and support relevant issues on both a national and local level. Work is progressing on our new big project – the Waikato native threatened plant collection/garden at the University of Waikato biology glasshouses. The first working bee has been held to begin preparation of the site and plant material is already under propagation. Our first two tertiary botany student prizes of \$250 were handed out this year. These are funded from interest on a term investment of Botany of the Waikato book sales. Steady sales of the book continue. The passing of David Given was noted, as was our fortune in having him speak to us at our Festival for the Environment event last year.

Moved that the President's report be accepted (Liz Grove/Wade Tozer). Carried.

#### **Previous minutes:**

Minutes of the last AGM were circulated. Moved that they be accepted as a true and accurate record (Liz Grove/Wade Tozer). Carried.

#### **Matters arising:**

Liz Grove suggested a change in subscription rates to \$5 for all unwaged persons such as those who are retired (Liz Grove/Karen Denyer). Carried.

#### **Financial report:**

Read out by the Treasurer, Janica Amoore. Income this year comes from 93 book sales and 57 paid up members. The major expenses were the student prizes and the David Given talk during the Festival for the Environment. Finances remain in a healthy state, with net worth bolstered by remaining stocks of the Botany of the Waikato book.

Moved that the financial report be accepted (Janica Amoore, Shirley Nichols). Carried.

Liz Grove brought up the possibility of increasing the term deposit so that the increase in interest earned would better cover the yearly payments of the student prize. Janica also felt that there could be some discussion on other things to do with our funds, although the garden project will account for some of this.

#### **Election of officers:**

President	Liz Grove (Shirley Nichols/Wade Tozer)
Vice President	Shirley Nichols (Liz Grove/Wade Tozer)
Secretary	Andrea Brandon (Liz Grove/Shirley Nichols)
Treasurer	Janica Amoore (Liz Grove/Shirley Nichols)

Committee                      Wade Tozer (Shirley Nichols/Karen Denyer)  
   Cilla Wehi (Wade Tozer/Janica Amoore)  
   Bruce Clarkson (Liz Grove/Karen Denyer)  
   Paula Blackett (Shirley Nichols/Wade Tozer)

The position of newsletter editor remains vacant at this time. Shirley would be happy for someone else to take over. This will be discussed at the first meeting of the new committee.

**Other business:**

None

As no other matters were raised for discussion the meeting was closed at 7:25pm.

<b>PRESIDENT'S REPORT 2005-06</b>
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It has been a good year for the society with a great variety of trips and activities on offer. We ran two trips which had been cancelled in 2004, these were to Karangahake gorge and Whangamarino wetland, both of which proved to be very popular. A field trip early last year went to Cooks Beach on the Coromandel in search of threatened plants and during the year we thank Rotorua Botanical Society for inviting us to a couple of events- a sedges and rushes identification workshop and a field trip into Whirinaki Forest Park. This summer we have already had several really good overnight trips including visiting the King country and Te Maika peninsula at Kawhia.

I would like to say a big thank you to all trip leaders, organisers and newsletter report writers, you have all put in a lot of effort to make interesting trips and reading for the rest of us. And of course thank you to all members who take the opportunity to come on these trips, I know I always learn something new on any field trip. The number of people attending field trips remains quite low, which is fine in itself, we know the trips are enjoyed by those who attend. But I do hope that the society is catering for all members and I urge people to put forward suggestions at anytime for activities they would like to see the Society become involved with.

We have had a couple of new faces on the committee this year which has given us a new spark. Thank you for the hard work put in behind the scenes to all of the committee, particularly Janica as Treasurer, Shirley as newsletter editor and Andrea in preparations for the threatened plant garden. Jane Hart has done a good job of lifting our profile as our PR person and it is great to now have a website up and running with the newsletter and membership and book order forms downloadable. We now hope to develop links to and from other botanical societies and related networks.

The NZ plant conservation network is becoming increasingly active and we will continue to be involved with them to promote the Waikato region. The Society is a member of the NZ Association for Environmental Education which is another forum for us to promote the joys of botany to a wider audience. As a member of the Hamilton Environment Centre we also keep in the loop on local activities and feel we are supporting a service with is directly aligned with our society's aims.

We took a break from organising a large public talk this year after the success of the David Given talk combined with viewing Nancy Adams botanical drawings at the museum. It is with great sadness that we noted the passing away of David late last year after a prolonged period of illness and we are very thankful to have had the pleasure of meeting such an accomplished and well respected botanist and having him speak to us all.

Our new project this year has been planning for a Waikato native threatened plant collection/ garden which is to be located at the University in the biology glasshouses compound. Our first working bee a few weeks ago was a great success in clearing the garden area of exotic shrubs and nasty weeds and we now have 10 or so species sown in seed trays in the

glasshouses. We already have a couple of shrub species grown on to a size ready for planting so the garden really should start to take shape over the next few working bees. We still have to make some decisions on landscaping materials and design before any planting occurs though, so we look forward to further input by members.

We were very pleased this year to present the inaugural winners of our two tertiary level botanical student prizes with \$250 each in prize money and a subscription to the Society. We will continue to offer these two prizes annually from the interest on a term investment of book sales returns.

Which brings us to THE book. We are still turning over sales on the 2002 publication Botany of the Waikato, slowly but surely. Orders trickle in from students, the public and book stores around the world even. I would like to thank Janica for dealing with a lot of the book sales and distribution.

So once again I thank the committee particularly and all members for their contribution to the society this year and we can all look forward to an exciting programme of events continuing this year.

Liz Grove

<p style="text-align: center;"><b>OBITUARY: DAVID ROGER GIVEN ( 8.11.43 - 27.11.05 )</b></p>
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Members of our Society were saddened to learn of the death late last year (27 November 2005) of Dr David Given (Fellow of the Linnaean Society). David had visited us on 10 March 2005 to give an outstanding Festival for the Environment address on "Conserving plants: what we need to do to save the world" and joined us for a very enjoyable field trip (12 March 2005) to Motukokako Scenic Reserve adjoining Raglan Harbour.

David was a botanist and nature conservationist of international renown and in New Zealand was particularly well known for his pioneering work in threatened plant conservation. His landmark 1976 New Zealand Journal of Botany paper on threatened plants and his 1981 book on rare and endangered plants of New Zealand began a wave of interest in the study and conservation of New Zealand threatened plants. During his career he received many notable awards including the Loder Cup (1995) and most recently, the Sir Peter Scott Award for Conservation Merit (2005).

I first met David when I joined the Botany Division of DSIR in 1980 and was based at Lincoln for a brief induction and training course. David was most welcoming to the "new boy" and so began a long association that included much productive collaboration, including visits to many North Island geothermal sites and, the best of all, to Chatham Island to study the peatlands and threatened flora there. Bev and I attended the burial where our floral token of appreciation was made up of North Island threatened plants including *Hebe tairawhiti*, *Pittosporum turneri*, *Pittosporum obcordatum* and *Olearia pachyphylla*. The service held later in the day at David's church was a fitting celebration of his life and work, which we greatly appreciated. Our condolences go to David's family and friends on their great loss.

What better way could there be to mark David's contribution than by redoubling our efforts to protect and conserve our unique native flora.

Bruce Clarkson



# FINANCIAL REPORT

## Waikato Botanical Society Records Feb 28th 2005 - Feb 28th 2006

### Bank Balances as @ 28th Feb 2005

Cheque	\$6,298.59	
Savings	\$0.00	
Term Deposit	\$6,000.00	
Total funds 28th Feb 2005		\$12,298.59

### Income

Subs	\$710.00	
Interest (chq a/c)	\$35.57	
Interest (Term deposit)	\$441.40	
Book sales (93)	\$1,679.20	
Postage & handling	\$0.00	
Donations	\$136.55	
Other	\$200.00	
Total		\$3,202.72

### Expenses

Advertising	\$27.72	
General	\$347.74	
Stationary/stamps	\$33.12	
Catering	\$625.50	
Donations/prizes/membership	\$641.00	
Total		\$1,675.08

Profit \$1,527.64

Total funds available 28th Feb 2006 \$13,826.23

### Bank Balances as @ 28th Feb 2006

Cheque	\$7,826.23	
Savings	\$0.00	
Term Deposit	\$6,000.00	
Total funds 28th Feb 2006		\$13,826.23

### End of year reconciliation

Expenses owing \$0.00

### Expected income (invoices)

1 book + postage \$30.70

\$30.70  
 difference \$30.70

Bank Balance \$13,826.23  
 Adjust Balance as @ 28 Feb 2006 \$13,856.93

### Assets

Value (based on cost)

Books in Stock 28/2/05	1098	\$17,502.12
Books in Stock 28/2/06	1005	\$16,019.70

Waikato Botanical Society net worth 28 Feb 2006 \$29,876.63

## SUBSCRIPTIONS

The 2006-07 membership year began in March. Please complete and return the form at the end of the newsletter to continue your subscription. Please note we had a technical amendment to our subscription categories at the recent AGM which means that the \$5 subscription now applies to all unwaged persons e.g. retired, not only students.

## SWAMP TREASURES

This year's Fuel Festival (FUEL 2006 – Festival of New Zealand Theatre) will feature an event that promotes the conservation of the Waikato's wetlands through performance and visual arts. Theatre students from the University of Waikato, ACTA Company of Te Aroha, the Waikato Society of Arts, Fraser High School art students, Kinetic Youth Theatre Company, The Waikato Youth Orchestra and Waikato Youth Choir will come together to highlight the "treasures" of our wetlands.

"Swamp Treasures" is a community theatre project with four performances from June 22-24<sup>th</sup> at the Meteor Theatre. Director, Waikato University theatre studies director John Davies, will also be using the project to research the effectiveness of community theatre in raising awareness of conservation issues, particularly the conservation of Waikato wetlands. His findings will be published, and presented at international theatre studies conferences.

The theatre foyer will also feature an exhibition by The Waikato Society of Arts, with murals inspired by the wetlands theme, made up of individual panels of art. One mural will consist of panels done by students of its children's art classes and the other one by WSA members. Panels will be for sale by a silent auction or tender.

Sounds like a great combination of science, conservation, art and environmental education!

For more information visit [www.fuelfest.co.nz/programme/swamptreasures](http://www.fuelfest.co.nz/programme/swamptreasures)

Thursday 22<sup>nd</sup> and Friday 23<sup>rd</sup> June – 7:30pm

Saturday 24<sup>th</sup> June – 1:30pm and 7:30pm

Meteor Theatre – 1 Victoria St, Hamilton

\$12 adults, \$10 senior/unwaged, \$7.50 school groups (per student)

Book through Ticket Direct

[www.ticketdirect.co.nz](http://www.ticketdirect.co.nz) or 0800 4 TICKET

## FINANCIAL NEWS

Our treasurer Janica has had a baby boy, Lodi, on Good Friday. Both doing well.  
Congratulations Janica and Quin!

## TAITUA ARBORETUM

20 hectares of open pasture, lakes and woodland gardens. Open 7 days, 8am to half an hour before dusk. Free admission. Ph 847 5847.

Been thinking about visiting the arboretum?

Free guided tours are being offered over the autumn, until May 25<sup>th</sup>. Every Tuesday, Wednesday and Thursday 9:30-11am, bookings essential ph. 838 6622.

**WAIKATO BOTANICAL SOCIETY  
PROGRAM 2006**



In the event of bad weather, please contact the trip leader on the morning of field trips if you are unsure if they will go ahead and don't want a wasted trip to the meeting point. It is always helpful to notify the trip leader of your intention to attend a trip in case you are late to the meeting point or for last minute changes of plan. Please be prepared on all trips with your own lunch, drink, sturdy footwear, and clothes for all seasons. We encourage carpooling for longer distances and suggest a contribution is made toward those ever increasing petrol costs for the driver.

**Sunday 4<sup>th</sup> June**

**Hakarimata Kauri Grove and Northern lookout**

A 1½ hour loop track takes us through a kauri grove with several large remaining trees which survived logging in the area, *Alseuosmia quercifolia* is common here also. For those feeling energetic we will continue up towards the northern lookout to see some large kohekohe trees in full flower following recent possum control.

**Contact:** Liz Grove ph. 07 846 0965 (hm) or [eg3@waikato.ac.nz](mailto:eg3@waikato.ac.nz) to carpool from Hamilton

**Meet:** 10am, the walking track carpark at Parker Road end, Northern Hakarimata Range (follow the road on western side of the Waikato River up from Ngaruawahia)

**Wednesday 5<sup>th</sup> July**

**Evening talk and slides by Bruce Clarkson: Botany of some European mountains: Pyrennes (Spain), Gran Sasso (Italy), Vesuvius (Italy) & Mont Blanc (France)**

An illustrated talk featuring some of the highlights of a recent visit to Europe focussing mainly on mountain plants and landscapes ranging from recent volcanics to karst country but with a little bit of culture and history also included.

**Contact:** Shirley Nichols ph. 07 855 5061 (hm) or [shirley.nichols@agresearch.co.nz](mailto:shirley.nichols@agresearch.co.nz)

**Meet:** 7pm, McMeekan Centre, AgResearch, Ruakura.

**Sunday 6<sup>th</sup> August**

**Protected significant trees of Hamilton City**

**& Botanical Society Native Threatened Plant Collection working bee #3**

Have you hugged a significant tree lately? A guided visit to see some of the protected native and exotic trees along the Waikato River in Hamilton's city centre. Helen Bailey from the Hamilton City Council will talk about the significant trees register and how the assessment process is carried out to include trees valued for their ecological, botanical and amenity contribution to the community.

After lunch a further working bee to weed, plant and propagate in the Society threatened plant collection. Bring your old gardening clothes.

**Contact:** Liz Grove ph. 07 846 0965 (hm) or [eg3@waikato.ac.nz](mailto:eg3@waikato.ac.nz)

**Meet:** 9.30am University of Waikato Gate 9, from here we will proceed to the River walk near the central city returning to the threatened plant garden site in the glasshouse compound at the University at 1pm.

### **Sunday 3<sup>rd</sup> September**

#### **Tairua and Sailors Grave, Whenuakite, Coromandel.**

Starting with Red Bridge walk to find *Brachyglottis myrianthos* and to see typical Coromandel regrowth, with abundant *Pseudopanax discolor* and *Alseuosmia macrophylla*. Then relocate to The Sailors Grave Historic Reserve from where we can walk along the coast and on into the Whenuakite Block of the Coromandel Forest Park. Threatened species to look out for include *Picris burbridgei*, *Pimelea tomentosa* and *Sicyos australis*.

**Contact:** Doug Ashby [dj.ashby@xtra.co.nz](mailto:dj.ashby@xtra.co.nz), or to carpool from Hamilton Andrea Brandon ph. 07 858 1018 (wk) or [abrandon@doc.govt.nz](mailto:abrandon@doc.govt.nz)

**Meet:** 10am at the Tairua Community Hall , Main Road , on right , just before the bridge into town (opposite Pepe Road).

### **Sunday 1<sup>st</sup> October**

#### **Peter Morris' gully restoration**

#### **& Botanical Society Native Threatened Plant Collection working bee #4**

A visit to the 20 year old gully restoration project of Peter Morris in Mangaharakeke gully, on the edge of Hamilton at Newstead/Matangi. The six acres of restoration contains a wide variety of site types - from dry bank top areas to very wet backswamp so there is a large range of species to see.

After lunch we return to another working bee to weed the collection, plant out and propagate. Bring your old gardening clothes.

**Contact:** Liz Grove ph. 07 846 0965 (hm) or [eg3@waikato.ac.nz](mailto:eg3@waikato.ac.nz)

**Meet:** 9.30am University of Waikato Gate 9, from here we will proceed to Peter Morris, returning to the threatened plant garden site in the glasshouse compound at the University at 1pm.

### **Sunday 5<sup>th</sup> November**

#### **Ferns on Mt Te Aroha**

A challenging climb, about 3-4 hours up, but well worth the effort to look at ferns in particular with guru John Smith-Dodsworth. A good selection of filmy ferns can be found towards the top of the track, but no doubt there will be plenty of others` to catch our breath over on the way up too.

**Contact:** Liz Grove ph. 07 846 0965 (hm) or [eg3@waikato.ac.nz](mailto:eg3@waikato.ac.nz) to carpool from Hamilton

**Meet:** 9am at the entrance to Te Aroha hotpools carpark.

### **Sunday 3<sup>rd</sup> December**

#### **Te Waihou Walkway and Wairere Falls**

#### **Combined Christmas trip with Rotorua Botanical Society**

We will walk the Te Waihou walkway near Tirau and look at aquatic vegetation in the Blue Spring with Paul Champion from NIWA. Those who are interested will then travel over to the Wairere Falls where a 1hr boardwalk takes you up to the base of the falls, a further 45min walk uphill leads to a lagoon at the top of the falls.

**Contact:** Andrea Brandon ph. 07 858 1018 (wk) or [abrandon@doc.govt.nz](mailto:abrandon@doc.govt.nz) to carpool from Hamilton

**Meet:** 9 am at Landcare Research carpark, Gate 10 Silverdale Rd, to carpool from Hamilton or 10 am at the Leslie Road carpark (Leslie Rd is off Whites Rd which is SH 28).

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WAIKATO BOTANICAL SOCIETY  
Membership form

Please return with your subscription to:   Membership  
  Waikato Botanical Society  
  c/o Department of Biological Sciences  
  Waikato University  
  Private Bag 3105  
  Hamilton

Please print clearly

Name(s): .....

Address: .....

.....

E-mail:.....

Phone: .....(day) .....(evening)

Subscription enclosed:    Individual/Couple/ Family       \$15.00 (per year)  
  Student/Unwaged                               \$5.00 (per year)

Please make cheques payable to "Waikato Botanical Society Inc."

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