



Message from the President

Just as the calm, rainy weather started to invigorate our bush, strong gales are battering it again. No wonder we talk so much about the weather in New Zealand, especially in Wellington. My son in California finds the weather too predictable and pleasant, and longs for the excitement of weather back home. The changing global weather patterns make life even more exciting, and no doubt the "natural" distribution of native plants in NZ is changing.

This year started for BotSoc with a successful field trip in the Ruahines, despite severe gales making botanising on the tops tricky. Special thanks to all those who worked to make the trip run smoothly.

Our team is working enthusiastically on 2006 and 2007 field trips. Our summer trip will be to Stewart Island and the Catlins, and our Easter 2007 trip will be based at Tautane Station, Cape Turnagain. Both trips sound fascinating! Do mark them in your diary. Another highlight in 2006 will be the release, in November, of Audrey Eagle's book on native trees and shrubs, fully illustrated with her paintings.

Best wishes, Joyce Stretton

Newsletter by e-mail?

If you would like to receive your Newsletter by e-mail, and help us to reduce our postage costs, please advise our Treasurer, Rodney Lewington, WBS, PO Box 10 412, Wellington 6036.

New members

We welcome the following:

Susan Aitken, Tony Aldridge, Tim Birks, Liz Hibbs, Kaaren Mitcalfe, Dr Karen Palmer, Natalie Quirke, Jan Rivers, Philippa Smith, Yvonne Weeber.

Articles for web site

We welcome articles for consideration for inclusion on our web site:
www.wellingtonbotsoc.wellington.net.nz

Please send your article to:

Richard Herbert,
8 Duval Grove,
Redwood,
Wellington
ph 232 6828
fax 381 4518
e-mail herbert.r@xtra.co.nz

Manawa Karioi Society Revegetation Programme Workbees

Second Sunday each month,
10 a.m. – 2 p.m.

Bring your lunch.

Contact:

Peter Russell ph 383 6898 or
Sally Bowman ph 934 7041

Wellington Botanical Society

President:	Joyce Stretton	934 2437	
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Annual Subscription:	ordinary \$20; country \$15; student \$5; group / family \$25.		

Send your subscription to Treasurer, WBS, Box 10 412, Wellington 6036.
New subscribers: Please complete form at the back of this Newsletter.

Meetings

BotSoc meetings are usually held at 7.30 pm on the third Monday of each month at Victoria University, W'gton – Lecture Theatre 101, ground floor, Murphy Building, west side of Kelburn Parade. Enter building about 20 m down Kelburn Pde from pedestrian overbridge.

Field trips

Day trips to locations in the Wellington region are usually held on the first Saturday of each month.

Extended excursions are usually held at New Year, the first weekend in February, and at Easter.

DEADLINE FOR COPY FOR NEXT ISSUE – 20 August 2006

Articles may be edited for clarity and length

ATTENDING FIELD TRIPS AND MEETINGS

Ideas please

We welcome your ideas about:

- places to visit on field trips
- topics and speakers for evening meetings
- information or photographs for BocSoc web site

Please send ideas to our secretary, Barbara Clark, PO Box 10 412, Wellington 6036, ph 233 8202.

Field trips

If you intend to join a trip, PLEASE phone the leader at least TWO DAYS beforehand, so that he/she can tell you of any changes and/or particular requirements. If you cannot ring in advance, you are welcome to join on the day.

Clothing for field trips

Sun hat, balaclava¹ or hat¹, waterproof/windproof parka, long-sleeved cotton shirt, singlet¹, bushshirt¹, 1 or 2 jerseys¹, waterproof/windproof overtrousers, nylon shorts, longjohns¹, longs¹, underclothes, swimming togs, 4pr socks¹, hut shoes, boots, gaiters, mittens¹, handkerchief.

Day trip gear

First aid kit, compass², map², insect repellent, whistle, matches in waterproof container, water purification tablets, water bottle, thermos, pocket knife, camera², binoculars², hand lens², note book², pen and pencil², sunblock, sunglasses, large plastic survival bag to line pack.

Overnight trip gear and food

As well as the day trip gear listed above, bring torch, spare bulb and batteries, candle, mug, plate, knife, fork, spoon, small towel, soap, tooth brush, tent, fly, poles and pegs, groundsheet, sleeping mat, sleeping bag, liner and stuff bag. Bring bread, butter/margarine, biscuits, fresh fruit and scroggin. SCROGGIN = Sultanas, Chocolate or Carob, Raisins, Orange peel, Glucose³, Ginger, Including Nuts.

1 = wool, polypropylene or polarfleece as applicable.

2 Optional

3 Dried apricots are recommended instead of glucose but would spoil the acronym!!

BotSoc equipment

In addition to the gas stoves, billies, kitchen utensils, flies etc., used on long field trips, the following are also available:

- first aid kit. NOTE: anti-histamines NOT included, because of short shelf-life
- ten NZMS 260 Sheet R27, Pt.Q27 maps
- ten Silva Type 3 compasses

If you are leading a BotSoc trip, and would like to take these items, please ring Chris Horne ph 04 475 7025, or Barbara Mitcalfe ph 04 475 7149.

Health and safety

- You are responsible for your own first aid kit. If you have an allergy or medical condition, please carry your own anti-histamines and medications, tell the trip leader of any problems you may have and how to deal with them.
- You are responsible for keeping with the party. If you have any doubts about your ability to do this, you must check the trip conditions with the trip leader, who

reserves the right to restrict attendance.

Fitness and experience

Our field trips vary considerably in the level of fitness and tramping experience required. Although our main focus is botanical, our programme sometimes offers trips which, in the pursuit of our botanical aims, are more strenuous than others. Although leaders take care to minimise risks, everyone participates at their own risk. If you have any questions about whether you are fit enough for a particular trip, please contact the leader well beforehand.

Transport reimbursement of drivers

We encourage the pooling of cars for trips.

- **Passengers:** Please pay your share of the running costs to your driver. We suggest 10c/km/passenger.
 - If a trip on the inter-island ferry is involved, please pay your share of the ferry fare.
 - If you change cars mid-trip, leave a *written* note for your driver.
- **Drivers:** Please ensure that you know where you are going, and who is in your car;
 - Zero the odometer at the start, and agree on a return time;
 - Account for all your passengers before you come back;
 - Collect contributions towards transport costs.

Meetings

Public transport to meetings

You may find the following bus services useful. They stop on Kelburn Parade, about 50 m from Lecture Theatre M101 in the Murphy Building, Victoria University:

TO MEETINGS

No. 23 Mairangi: 6.30 pm from Houghton Bay, 6.40 Zoo, 6.50 Courtenay Place, 6.57 Pastoral House, 7.02 University.

No. 23 Mairangi: 6.55 pm from Southgate, 7.05 Hospital, 7.15 Courtenay Place, 7.22 Pastoral House, 7.27 University.

No. 22 Southgate: 6.55 pm from Mairangi, 7.10 University.

No. 23 Houghton Bay: 7.25 pm from Mairangi, 7.40 University.

No. 17 Railway Station: 6.35 pm from Karori Park, 6.52 University.

Cable Car at 00, 10, 20, 30, 40, 50 min past each hour from Lambton Quay terminus. Alight at Salamanca Station.

FROM MEETINGS

No. 23 Southgate: 9.10 from University.

No. 23 Southgate: 10.10 from University.

Cable Car at approx. 01, 11, 21, 31, 41, 51 minutes past each hour from Salamanca Station.

Last service 10.01 p.m.

For further information ring Ridewell Enquiry Service 801-7000.

FIELD TRIPS AND EVENING MEETINGS: MAY–OCTOBER 2006 + NEW YEAR TRIP + EASTER 2007

The following programme IS SUBJECT TO CHANGE. If you wish to go on a field trip, PLEASE help with planning by giving the leader 2 days' notice before a day trip, MORE notice before weekend trips, and SEVERAL WEEKS' notice before the New Year's trip.

Saturday 29 April: Field trip

Druce garden weeding

Leader: Helen Druce, 123 Pinehaven Road, Pinehaven. Ph: 970 7853. Help with maintenance of this nationally important covenant containing many threatened indigenous plant species established by Tony and Helen Druce over the past fifty years. 9.00 a.m. onwards. Bring tools, gloves and food; hot drinks provided.

Saturday 6 May: Field trip

East Harbour Regional Park

Botanise Fern Gully Track, Rata Ridge Track and ridge on east side of Gollans Valley, then traverse park via Gollans Stream to Days Bay, or retrace steps to Wainuiomata Road. Catch 9.05 a.m. train from Wellington to Waterloo Station, then no. 170 Wainuiomata South bus on east side of station. Meet 9.45 a.m. at bus stop on Wainuiomata Road just past Rata Street. Map R27 and street map. Park pamphlet supplied. Co-leaders: Barbara Mitcalfe 475 7149, Chris Horne 475 7025.

Monday 15 May: Evening meeting

QEII covenants—all you want to know

Speakers: Robyn Smith, Regional Representative, QEII National Trust and John Bishop, Estate Manager, QEII Head Office, will present an overview of the Trust including its history, steps involved in establishing a new covenant, covenant management, monitoring and legal aspects of covenanting.

Saturday 3 June: Field trip

Wi Parata Reserve and Nga Manu Sanctuary

Botanise the kohekohe-dominant terrace forest managed by KCDC at Wi Parata, and the wetland forest from boardwalks at Nga Manu. Meet 9.00 a.m. at Tawa Street, Waikanae, entrance to Wi Parata Reserve. Train: 7.30 a.m. from Wellington Paraparaumu. Ask leaders to meet you at station. Leaders: Barry Dent and Sue Freitag 476 6536.

Monday 19 June: Evening meeting

Plant chemical systematics and evolution: iridoids in *Plantago* and *Veronica*

Speaker: Rilka Tashkova, Post-doctoral Fellow, School of Biological Sciences, VUW. A group of plant chemical constituents, called iridoids, has been attracting considerable scientific interest because of their biological activity and usefulness for chemotaxonomic purposes. They play an important role in protection of plants from herbivore grazing and are used in folk medicines as bitter tonics, sedatives, and remedies for wounds and skin disorders. Iridoid glycosides have been used as reliable systematic markers in more than 50 plant families at different taxonomic levels. Rilka will discuss their origin, biological activities and chemosystematic value and present examples from her investigations on *Plantago* and Northern and Southern representatives of the genus *Veronica*.

Saturday 1 July: Field trip

Jubilee Park / Percy Scenic Reserve

(i) Botanise a small area of mixed original and regenerating bush as well as areas planted out after a fire in the 1960s. Meet 9.00 a.m. Jubilee Park. across Normandale Overbridge. Leader: Stan Butcher 567 7271. (ii) Botanise coastal forest up past Percy Reserve's waterfall and down via the endangered species garden and collections area. Leader Jill Broome 528 4378.

Monday 17 July: Evening meeting

The genus *Aciphylla*

Speaker: David Glenny, Landcare Research

A brief overview of the genus, including new evidence on the moa-browsing hypothesis. Then discussion of the taxonomic problems within the *A. monroi* group of eight species, relating to geographic variation, particularly north-south and east-west clines.

Saturday 5 August: Field trip

Queen Elizabeth Park, Mackays Crossing

See some of the surviving native dune plants, visit the nursery and consider the challenges faced by Greater Wellington Regional Council in managing the dune ecosystems. Possibly botanise Poplar Avenue wetland. Meet: 9.00 a.m. at Ranger Station Mackays Crossing entrance to Queen Elizabeth Park. Leaders: Chris Horne 475 7025, Barbara Mitcalfe 475 7149.

Saturday 12 August: Field trip

Te Marua workbee

NOTE EXTRA FIELD TRIP

In partnership with Greater Wellington, BotSoc has been committed since 1989 to do weed control and planting in this important matai/totara/maire remnant in Kaitoke Regional Park. Our biennial workbees must continue so that we keep ahead of re-invasion by weeds, particularly around the plantings, so please come to help with this important work. Bring: gloves, kneeler, weed bag, and your favourite weeding tools e.g. trowel, hand fork, loppers,

pruning saw, pinch bar. Meet: Upper Hutt Station carpark at 9.00 a.m., or Te Marua Bush at 9.30 a.m. (250m north of Te Marua Store and 50m off SH2 along the road to Te Marua Lakes, Kaitoke Regional Park). Catch 8.05 a.m. train on Hutt line from Wellington Station. Maps: R26 Paraparaumu and Upper Hutt street map. Co-leaders: Glennis Sheppard 526 7450, Sue Millar 526 7440

Monday 21 August: Evening meeting

1. Annual General Meeting

2. AP Druce Memorial Lecture:

Exotic plant invasions, the other half of the flora

Speaker: Peter A. Williams, Landcare Research, Nelson. "When I started working with Tony Druce about 40 years ago we seldom looked at the naturalised flora. But Eric Godley, then the Director of Botany Division, DSIR, was rather taken by the spread of broom in the Hanmer area. He employed me to study these new communities. This lecture presents some of the things I have learned during a working life of studying the ecology of naturalised flora; where it came from, how it spread, the new communities it has formed, how these differ from the native communities, what the native birds think of it, and what the future holds."

Saturday 2 September: Field trip

Makara Foreshore Reserve

This small reserve of coastal sand-and-gravel huggers has been the focus of BotSoc study visits in 1995 and 2001. It's time for us to revisit it. We will recheck our transect lines to see how the native plants have fared over the last five years. Weeds are a constant problem in this small reserve, so we will also be investigating whether control methods are holding them at bay. Bring all the usual gear, plus pen/pencil and a clipboard (optional). Meet at Makara Beach 9.30 a.m. Leader: Maggy Wassilieff (also contact for all transport arrangements), Ph 383 6100, email: zl2afp@internet.co.nz. Deputy leader Barbara Mitcalfe 475 7149.

Monday 18 September: Evening meeting

Wetlands—from the global to the local

Speaker: Melanie Dixon, Policy Adviser, Greater Wellington Regional Council. Globally, the area covered by wetlands has halved over the last two hundred years, and the loss continues. What are the implications for biodiversity, flood abatement, water quality and carbon sequestration? And what is the impact on wetlands of global warming and sea level rise and the 'nitrogen cascade'? This talk starts with global wetland issues and finishes with a discussion of wetlands and wetland types in the Wellington region.

Saturday 7 October: Field trip

Keith George Memorial Park / Silverstream SR, Upper Hutt

Botanise forest on escarpment of Wellington Fault and look for mistletoe and *Teucrium parvifolium* (old record?). If time permits we will botanise Bartons Bush, Trentham Memorial Park. Meet 9 a.m. at car park on SH2/River Road, just north of Silverstream lights. Leaders: Glenis and Alan Sheppard 526 7450.

Christmas/New Year's Field trip

1. Rakiura National Park/Stewart Island.

28 December 2006 – 11 January 2006

2. Catlins, eastern Otago

Book promptly! Accommodation is limited.

See registration form at back of Newsletter. References: *Parkmap Stewart Island* 1:150,000 336-10; *Rakiura Track* – DOC pamphlet - \$1.00; *Field Guide – Stewart Island Plants*, 1982, Hugh D Wilson; *Stewart Island – Rakiura National Park* – Stewart Island Promotion Association – brochure; *The Catlins – Walking and Tramping Opportunities* – DOC booklet - \$2.50; *The Catlins, NZ* – South Catlins Promotions – brochure. Infomaps G46, H46, F47, G47, H47.



Pohutukawa & Rata – NZ's Iron-hearted Trees

Dr Philip Simpson's magnificent, profusely illustrated, 346 p soft-cover book, published in 2005, will be available at BotSoc's evening meetings, or for collection from 28 Kaihuia St, Northland, Wellington, for the special price of \$50! Te Papa Press sell us the book in boxes of eight. We need more orders before we can obtain our next box. From the sale of each book, \$2 goes to BotSoc's Jubilee Award Fund – see article elsewhere in this issue.

Editor

**Help raise funds for BotSoc's Jubilee Award Fund –
bring named seedlings/cuttings for sale at each evening meeting**

EVENTS

9 May: **Otari-Wilton's Bush Trust – AGM.** 7.30 p.m., OWB Information Centre, 160 Wilton Rd, WN.

20 May: **WCC Berhampore Nursery Open Day** 10 a.m. – 2 p.m. Emerson St, WN. Plant sales, self-guided nursery tours, displays by gardening and horticultural groups, including BotSoc, talks, demonstrations and food stalls. Everyone welcome.

22 May: **International Biodiversity Day.**

27 May: **Wellington Restoration Day.** 9 a.m.- 4.30 p.m. Eastbourne Community Hall, cnr. Tuatoru St and Marine Pde. Theme: *Restoration of native fauna.* Speaker: Dr Colin Miskelly. Gain new skills and information, and network with groups from around the region. Learn about local community projects. Attend practical workshops and field trips. Community restoration/care groups are invited to mount displays about their projects – contact Katrina Spencer, Department of Conservation, ph 472 5821. Information and bookings: Bronwyn Bell, DOC, ph 472 5821, fax 499 0077, e-mail bbell@ddoc.govt.nz

28 May, 18 June, 2, 16, 30 July, 20 August, 3, 17 September. **Matiu/Somes Island – tree planting.** Register with Alex Kettles 569 6208, or Stan Butcher 567 7271. Transport by East-West ferry is free, quoting "Forest & Bird". Sailings: Queens Wharf – 10 a.m.; Days Bay Wharf – 10.30 a.m.

28 May. **Guided tour to giant rimu, botanising en route.** Otari-Wilton's Bush, 160 Wilton Rd, Wilton, WN. 2 hours. Leader: Dr John Dawson.

5 June: **Arbor Day.**

5 June: **World Environment Day.**

25 June. **Guided tour of Otari-Wilton's Bush Rock Garden and plantings near Lookout.** 160 Wilton Rd, Wilton, WN. 1–1.5 hours. Leader: Dr John Dawson.

30 June – 2 July. **Living sustainably – taking charge of the future.** Waharau Outdoor Education Centre, East Coast Rd, Kaiaua, Hauraki Gulf coast. Topics include: climate change; marine matters, environmental education. Environment and Conservation Organisations of NZ Inc (ECO), ph/fax 04 385 7545, e-mail eco@reddfish.co.nz

7 – 11 August. **Conservation Week – Theme: "Everybody's business – Kia ngakau nui te katoa ki te whakaratao".** Clean water, peaceful places, beautiful biodiversity, adventure, tourism, a healthy environment and financial security – Conservation Week 2006 highlights the benefits of conservation to our society. Contact your Department of Conservation Area Office, e.g. Ponake, Wairarapa, or Kapiti.

September 2006 – January 2007. **Linnaeus course at Uppsala University.** Internet-based distance course about Linnaeus' life and sciences, to celebrate his 300th birthday. Experts in botany, zoology, geology, medicine, history, literature and theology will introduce Linnaeus' different fields of research. Special emphasis will be on his main topic, systematic botany. Course free of charge Application deadline was 15 April, but BotSocers should seek clemency by declaring "force majeure"! Contact <http://www.ibg.uu.se/linnaeus>

20-22 November. **Cheeseman Symposium – celebrating the centenary of the first edition of Cheeseman's Manual of the NZ Flora (1906).** Conference Centre, University of Auckland. Conference – 2 days; field trips – 1 day. If you would like to receive the 1st and 2nd circulars, send your contact details, if possible including an e-mail address, to: Cheeseman Symposium, c/- Mei Nee Lee, Botany Dept, Auckland Museum, PB 92018, AK, OR put "Cheeseman Symposium" in the subject line, and e-mail your contact details to: mnlee@aucklandmuseum.com

Session headings: Early botanists; NZ and Pacific floras; Biodiversity informatics; Plant systematics/plant phylogeny & biogeography; Plant morphology, cytology & function; Pollination & reproductive biology; Science, conservation & conservation management.

NZ Plant Conservation Network will offer concurrent sessions & presentations on implementing the Global Plant Strategy, plant propagation & *ex-situ* conservation.

PUBLICATIONS

1a. **Science publications 2005.** Catalogue.

1b. **The role of disturbance in dryland NZ: past and present.** G. Rogers; S. Walker; B. Lee 2005. *Science for Conservation* 258. 122 p.

1c. **Long-term nutrient and vegetation changes in a retired pasture stream: monitoring programme and vegetation survey 1999-2003, updating data from 1976.** C. Howard-Williams; S. Pickmere 2005. *Science for Conservation* 257. 52 p.

1d. **Testing the weed risk assessment system for new conservation weeds in NZ.** P.A. Williams; J. Boow; G. La Cock; G. Wilson. *DOC Research & Development Series* 225. 19 p.

1c. ***Dactylanthus taylorii* recovery plan review: 1995–2000** S. Holzapfel 2005. *DOC Research & Development Series* 224. 47 p.

1d. **Management and conservation of seagrass in NZ: an introduction.** S. J. Turner; A Schwarz 2006. *Science for Conservation* 264. 90 p.

1e. **Department of Conservation – Statement of Intent 2005-2008.** 136 p.

Science & Technical Publishing Section, Department of Conservation, PO Box 10 420, WN. E-mail: science.publications@doc.govt.nz

2a. **Science for Conservation.** Entire archive is now online.

2b. **Threatened Species Occasional Publications.** Entire archive is now online.

www.doc.govt.nz>Publications>Science and Research>

3. **Annual Report of the NZ Conservation Authority – Te Pou Atawhai Taiao o Aotearoa for the year ended 30 June 2005.** NZCA, PO Box 10 420, WN.

4. **Conservation genetics of *Hebe speciosa* (Plantaginaceae), an endangered NZ shrub.** T. T. J. Armstrong; P. de Lange 2005. *Botanical Journal of the Linnean Society* 149, 229-239.

5. **Serious decline: Distribution and habitat of *Pimelea tomentosa*.** Prepared by Jenny Clarke for Dept. of Conservation 10/05. [Bay of Plenty Polytechnic, PBag 12001, Tauranga 3030.](#)

6. **Handbook for the monitoring of sand dunes in the Wellington Conservancy.** Helga Kuchly 2006. Unpublished thesis. School of Biological Sciences, Victoria University, PO Box 600, WN.
7. **Weedbusters!** Issue 8 1/06: weed alternatives a Wellywood hit – Wellingtonians receive native plants in return for weeds from their gardens; etc. Weedbusters, PO Box 4055, Hamilton. Ph 0274 434 431. info@weedbusters.org.nz
8. **Open Space** No. 66, 3/06: revegetation planting tips; rats; muehlenbeckia – insect habitat; *Muehlenbeckia australis*/pohuehue - smotherer, or haven for biodiversity?; boxthorn control; Open Space Covenants; etc. QEII National Trust, PO Box 3341, WN. Free phone 0508 732 878, www.openspace.org.nz Subscription: individual – \$30; family – \$45; life – \$550.
- 9a. **Measuring up – the state of the environment for the Wellington region 2005** Includes chapter “Biodiversity and the state of our ecosystems”. Also available in summary form, with 8 report cards, including: Biodiversity and the state of our ecosystems; Landscape and heritage; Coastal environment; Soils; Freshwater quality; The iwi environmental management system; etc.
- 9b. **Regional native plant guide.** <http://www.bethedifference.gw.govt.nz> click on the biodiversity tab.
- 9c. **lements.** Issue 33, 4/06: pest control in East Harbour Regional Park; toxic algae; Whitireia Park; state of the environment report; restoring Tauherenikau Bush; plant advice now online; etc.
- 9d. **Belmont Regional Park.** Brochure 3/06.
- 9e. **Be the Difference.** A series of brochures about sustainable living. Become a member, and we will encourage you to make small changes in your lifestyle that will be good for the environment. Membership free - application forms from above web site, or from Greater Wellington Regional Council, PO Box 11 646, Wellington. Ph 384 5708.
10. **Branch Out.** Vol 19: Summer 2006: plea for less vehicle damage on South Coast; free plants for public land near private properties; biosecurity in local parks; Rewi Elliot appointed as manager of Otari-Wilton's Bush; volunteers on revegetation projects; etc. Wellington City Council, PO Box 2199, WN. Ph 499 4444.
- 11a. **Community-based dune management for the mitigation of coastal hazards and climate change effects: a guide for local authorities.** 2005. 36 p.
- 11b. **A review of the Coast Care BOP programme.** 2004. Greg Jenks, Environment Bay of Plenty Regional Council, PO Box 364, Whakatane. Ph 0800 368 267, fax 0800 368 329, www.envbop.govt.nz
12. **Trilepidea.** No. 25, 12/05: Plant of the month – *Myosotidium hortensia*/Chatham Island forget-me-not; David Roger Given FLS (1943-2005); NZ's favourite plant – Cook's scurvy grass/*Lepidium oleraceum*; MWH sponsors publication of *Threatened Native Plants of NZ*; marae-based plant training course; Fungal Network of NZ established; images sought for web site info@nzpcn.org.nz; NZPCN partnership with QEII National Trust; etc. No. 26, 1/06: Plant of the month – *Metrosideros bartlettii*/Bartlett's rata; kakabeak/*Clianthus maximus* at serious risk of extinction; possum control in South Westland benefits mistletoe/*Peraxilla colensoi*; management of *Dactyloctenium aegyptium*/woodrose; list of images of trees and shrubs sought for web site; etc. No. 27, 2/06: Plant of the month – rimu/*Dacrydium cupressinum*; conservation of narrow-leaved maire; NZPCN conference 20-22/11/06, Auckland; .250 plant lists on-line; Poor Knights spleenwort on the Chatham Islands; images of trees and shrubs sought for web site No. 28, 3/06: Plant of the month – *Muehlenbeckia astonii*/shrubby tororaro; Important Plant areas – criteria for comment; Network conference 20-22/11/06, Auckland; list of images sought for web site; > 350 plant checklists on-line; saving *Sebaea ovata*; a new species of liverwort, *Frullania wairua*, found on Bartlett's rata; some name changes for NZ “*Cyathodes r.br*” (Ericaceae); etc. NZ Plant Conservation Network, PO Box 16 102, WN. www.nzpcn.org.nz
- 13a. **NZ Botanical Society Newsletter.** No. 82, 12/05: Tom Moss Student Award in Bryology; Bill Sykes made an Officer of the NZ Order of Merit (ONZM) for services to botany; hailstorms as defoliating forces; NZ plant species in “*Interactive flora of the British Isles* – DVD; research report – *Myriophyllum robustum*/robust milfoil in the southern North Island - Colin Ogle; review of *Field guide to the NZ orchids*. 3rd edition 2005 Ian St George; Bruce Irwin; Dan Hatch; etc. No. 83, 3/06: call for nominations for H.H.Allan Mere Award – see Awards section; request for information on NZ Lobeliads; Cheeseman Botanical Symposium 2006 – Auckland – see Events section; a comment on *Wahlenbergia littorica* ssp. *vernica* – Peter de Lange; Biographical Notes (61) - Index and corrections to Nos. 1-60 (1991-2005); biography/bibliography index; etc.
- 13b. **NZ Botanical Society Newsletter** – back issues: 1-46 incl. - \$2.50 ea.; 47-50 incl. - \$3.00 ea.; 51-82 incl. - \$3.75 ea. NZ Botanical Society, c/- Canterbury Museum, Rolleston Avenue, CH 8001.
14. **Canterbury Botanical Society Journal 39 - 2005.** Native and naturalised plants in Christchurch environments; distribution and biology of native plants beyond the city; unique Banks Peninsula; breeding systems in NZ plants; some flowering records for *Sophora microphylla* in the South Is; climatic warming and the upper forest limit; etc. Canterbury Botanical Society, PO Box 8212, CH. Ph 03 352 7922, bert.marg@xtra.co.nz
15. **Forest & Bird.** No. 318, 11/05: Matiu/Somes Island; 30 years of marine reserves; Kevin Smith – conservation hero; NZ's spectacular nature reserves; return of the native mistletoe; Boundary Stream Mainland Island; bush in Days Bay; etc. No. 319, 2/06: Cook's scurvy grass tops plant poll; Cape Palliser purchase secures scenic coastal landscape; wild kakabeak numbers unexpectedly low; satellite images put native forests on the map; ingenious DIY rat-bait station; Riccarton Bush predator-proof fence; etc. Subscription: Single or family - \$52; senior single or senior family - \$39; student/school - \$35. Royal Forest & Bird Protection Society, PO Box 631, WN. Ph 04 385 7374, fax 04 385 7373; office@forestandbird.org.nz.
16. **Auckland Botanical Society Journal.** Vol 60(1), 6/05: origins of Maori plant-names; etc. Vol 60(2), 12/05: additional fern records from Mt Egmont National Park; NZ geographical limits of native vascular plant species in the Auckland region: past & present; etc. ABS, PO Box 26 391, Epsom, AK.
17. **Manawatu Botanical Society Newsletter.** No. 35, 3/06: Millennium Seed Bank; weeds and threatened plants of the Manawatu-Wanganui dunelands; etc. MBS, c/- Jill Rapson, Ecology Group, Institute of Natural Resources, Massey University, Palmerston North. Ph 06 350 5799 ext 7963.
18. **Wellington's native bush: 'Forward from the brink? Illustrated talks from settlement to today.** Proceedings from the Friends of the Wellington Botanic Garden winter seminar, June 2005. Compiled by Kerryn Pollock. 45 p, A4, spiral bound. \$10 incl p&p. FoWBG, PO Box 28 065, Kelburn, WN.

19. **Otari-Wilton's Bush Trust News and Views.** 12/05: Rewi Elliot – new manager; accessions from western Canterbury, Arnold and Ruth Dench, and Tony and Helen Druce; talk on 3/10/05 by John Sawyer on significance of native plant work done at Otari; etc. 2/06: review of management plan; monitoring success of plantings of revegetation species; etc. Otari-Wilton's Bush Trust, 160 Wilton Road, Wilton, WN 6005.

20a. **Botanical prints – set of 4.** Paintings by Hugh Wilson. \$46.00, incl. p&p. (Laminated, they make splendid place-mats. Ed.)

20b. **Piipipi. No. 25, 12/05:** Hinewai's goal of restoration is "minimum interference"; research into uptake of atmospheric carbon by regenerating forest; blackberry being knocked back by blackberry rust; etc.

Donations to: Maurice White Native Forest Trust, Hinewai Reserve, RD 3, Akaroa 8161.

SUBMISSIONS CALLED FOR

28 April. Battle Hill Farm Forest Park Management Plan review. Comments and submissions for consideration for inclusion in the draft management plan to: Fiona Shaw, Advisor – Planning and Policy, Greater Wellington Regional Council, PO Box 11 646, WN. Ph 381 7784, fiona.shaw@gw.govt.nz.

A draft management plan will be published later in 2006 for public submissions.

5 May. Proposed Ten-year Plan 2006-16, incorporating the 2006/07 Annual Plan. Summary, policies document, and detailed information document from, and submissions to: Greater Wellington Regional Council, PO Box 11 646, WN.

5 May. Abel Tasman NP Draft Management Plan. Document from, and submissions to: Department of Conservation, PBag 5, Nelson.

12 May. Draft Long Term Council Community Plan 2006/07 – 15/16. Summary, or complete document from, and submissions to: Wellington City Council, PO Box 2199, WN. Ph 499 444.

12 May. Proposed amendment to Mount Aspiring National Park Management Plan. Proposal from, and submissions to: Director-General of Conservation, Department of Conservation, PO Box 5244, Dunedin.

x December. Northern Reserves Management Plan – Discussion document. Work has begun on the draft document, due to be published for comment in December. Contact: Genevieve Drake, Parks Planner – Open Space and Recreation Planning, Wellington City Council, PO Box 2199, WN. Ph 801 3501, fax 801 3155, e-mail gen.drake@wwcc.govt.nz.

SUBMISSIONS MADE

6 December 2005: Hutt City Council. Re Sir James Hector Estate land bounded by Percy Scenic Reserve, London Road, Korokoro, and SH2. Recommended that:

- the Department of Conservation (DOC), in conjunction with Hutt City Council, seeks to acquire the subject property from Transit NZ, and gazette it as Scenic Reserve under the Reserves Act 1977;
- DOC then vests management of the property in Hutt City Council, to be managed as part of Percy Scenic Reserve.

Among the reasons we gave were:

- a. The property includes indigenous forest and indigenous shrublands which are worthy of addition to Percy Scenic Reserve;
- b. The property would increase the biological diversity of Percy Scenic Reserve, and double the high-profile frontage of the reserve on SH2;
- c. Some areas of non-indigenous vegetation on the property could be cleared and replanted with indigenous species appropriate to Wellington Ecological District 39.01; other areas of non-indigenous vegetation could be cleared and planted with species of threatened conservation status. These plantings could commemorate Sir James Hector, the founding father of science in NZ, and a scientist of national and international importance. Part of this area could be used for an interpretation/education centre for the study of the flora and fauna in the reserve.

AWARDS

31 May. Loder Cup. New Zealand's premier conservation award. Awarded annually to the person, group of people, or organisation, which has exceeded all other nominees in furthering the aims and objects of the donor of the cup, it is entrusted to the Minister of Conservation who appoints the Loder Cup Committee and awards it. Contact: Stasi Turnbull, DOC, PO Box 10 420, WN. Ph 04 471 0726,

30 June. H. H. Allan Mere Award 2006. The award is made annually to a person or persons who have made outstanding contributions to botany in New Zealand, either in a professional or amateur capacity. Ewen Cameron, Secretary, NZ Botanical Society, c/- Canterbury Museum, Rolleston Avenue, CH 8001.

GRANTS

22 May. Lottery Environment Grants. These grants are for projects that promote, protect and conserve NZ's natural and physical heritage. Contact 0800 824 824, or www.dia.govt.nz

24 May. Biodiversity Fund. This fund assists with the management of indigenous biodiversity on private land only. Contact: Fund Co-ordinator, Stephanie Weller, ph 0800 86 2020, www.biodiversity.govt.nz

31 July, 30 November. Wellington City Council Environmental Grants. Criteria, application forms and other information available 6 weeks before closing dates from: Grants Assistant, WCC, PO Box 2199, WN. Ph 801 3158, e-mail katharine.macann@wcc.govt.nz

15 November: Wellington Botanical Society Jubilee Award. See article in this issue.

T.B.A. Take Care Programme. This programme supports projects based around rivers, streams, wetlands, lakes, dunes, coastal areas and estuaries. Contact: Paula Loader, Take Care Co-ordinator, Greater Wellington Regional Council, PO Box 11 646, WN. Ph 0800 496 734 or www.gw.govt.nz

Diplodium alveatum at Stokes Valley— a new North Island record

In February 2006, I found a single flowering specimen of an unusual greenhood under manuka on a bank on my property at Stokes Valley—about 3 metres from the back door of my house. The flowering stem was approximately 150mm tall. I photographed the plant and sent images to Ian St George and Peter de Lange, who both quickly identified it as *Diplodium (Pterostylis) alveatum*.

D. alobulum occurs a couple of metres away, and *D. trullifolium* is also found in Stokes Valley, but those species are both winter flowering.

D. alveatum is an Australian greenhood orchid related to the New Zealand endemics, *D. alobulum*, *D. brumalum* and *D. trullifolium*. It was first discovered in New Zealand in May 1998, growing under manuka and gorse in northwest Nelson. Several hundred plants are known from the area, and the species is classified “Coloniser” in the Department of Conservation’s New Zealand Threat Classification System.

Many Australian orchids have arrived in New Zealand from seed blown across the Tasman Sea on the prevailing west to east winds. Of those that have established here, many remain scarce because the New Zealand environment does not provide the conditions they need to flourish: for example, suitable insect pollinators may be lacking.

It seems as if *D. alveatum* is becoming established in northwest Nelson, but it is too early to say whether the plant at Stokes Valley represents an extension of the range from Nelson; it may simply be a chance germination of seed blown from either Nelson or Australia.



Diplodium alveatum at
Stokes Valley.
Photo: Jeremy Rolfe.

Photos of *D. alveatum* can be seen on the NZ Plant Conservation Network website, www.nzpcn.org.nz (search for vascular plant > *Diplodium alveatum*). If you find *D. alveatum* growing in the lower North Island, please report your find to John Sawyer at the Department of Conservation, jsawyer@doc.govt.nz.

The occurrence of the species at Stokes Valley reminds us all to keep an eye out for the unusual wherever we happen to be.

Jeremy Rolfe

A comment on *Wahlenbergia* *littoricola* subsp. *vernica*

Peter J. de Lange

Petterson (2005) provides a summary of her 1997 revision of *Wahlenbergia* published in the *New Zealand Journal of Botany*. Her article is both useful and an excellent example of “science transfer” to the masses. However, I feel the need to clarify the misleading remarks made over my admittedly senior but still joint decision on the taxonomic status of *W. vernica* J.A.Pett., viz “P.J. de Lange [sic] prefers to call this species *W. littoricola* Smith (1992) [sic], but I am not convinced, as the habitat and the foliage as described by Smith (pp. 140-141) are at odds....”. This does not explain the decision taken by the de Lange & Cameron (1999) rather it ignores points we made and the conclusions we reached in our treatment of *W. vernica* J.A.Pett.

What Petterson is alluding to is that Ewen Cameron and I made a new combination for *W. vernica* within *W. littoricola* P.J.Sm., at the rank of subspecies i.e., *W. littoricola* subsp. *vernica* (J.A.Pett.) de Lange et E.K. Cameron (de Lange & Cameron 1999: 435). The basis for this change in rank is given by de Lange & Cameron (1999: 435) where it is explained that the decision to make this combination at that rank was based on our examination of material held of both taxa at the Auckland Museum (AK), Allan Herbarium (CHR) and New South Wales (NSW) herbaria which did not, in our view, support species rank. Specifically we felt that Petterson’s *W. vernica* matched *W. littoricola* very closely with regard to “their growth habit, few to many, heavily branched stems, flowers borne in complex thyrsoids, with the corolla shortly campanulate, and the stigma constricted at one third to two-thirds down from the stigmatic lobes”. Furthermore the capsules of both species are obconic, they have comparable ecologies and they share the same chromosome number ($2n = 54$) otherwise unknown from the New Zealand species of the genus. Also, we had sent New Zealand specimens to the author of *W. littoricola*, Peter Smith, who after careful consideration stated (*in litt.*) that “the only significant character distinguishing New Zealand plants from those in Australia is the consistently glossy leaf surface of New Zealand specimens”. Because both taxa seem to be allopatric, yet the glossy leaf was a consistent difference between them, and Smith (*in litt.*) felt this was important; we reduced *W. vernica* to the rank of subspecies.

Note of course that there is no requirement for people to follow our decision because in effect, there are now two names at two ranks, species or subspecies for the same entity, and people can use whatever name they wish. They can even, as Webb & Simpson (2001) have done, ignore them altogether and refer these taxa along with *W. akaroa* J.A.Pett., *W. rupestris* G. Simpson, *W. ramosa* G. Simpson, *W. violacea* J.A. Pett. back to the earliest name available *W. gracilis* (G.Forst.) Schrad. which is the “parent” taxon from which these other taxa were later segregated (Petterson 1997). The choice is yours.

Petterson (2005) also repeats her 1997 suggestion (*loc. cit.*) that *W. vernica* (= *W. littoricola* subsp. *vernica*) might be the same as the Lord Howe Island endemic *W. insulai-howei* Lothian. Although I cannot be certain, because, like Petterson I have not seen that species in the

wild, herbarium specimens that I have examined at NSW! at WELT! And WELTU!, show that *W. insulai-howeii* has a different growth habit viz, “tufted and spreading, terminating in single, usually unbranched stems...leaves are usually crowded into basal rosettes...flowers solitary, or 2–3 per stem, deeply campanulate, with the style constricted at half the length down from the stigmatic lobes, and the capsules...hemispherical to short obconic” (de Lange & Cameron 1999: 435). These characters are not present in N.Z. specimens of *W. littoricola* subsp. *vernica* that I have seen, and it is perhaps noteworthy that the last author to revise the Australian taxa—Peter Smith, did not see fit to suggest that the New Zealand plants we had sent him should be placed there either. So I find it peculiar then, that Petterson (2005) adds nothing further to her earlier published remarks, but chooses to ignore rather than refute our comments on her earlier speculation.

Regarding distribution I cannot confirm the statement attributed to me (Petterson 2005: 17) that it is in Tasmania, though I have seen and collected plants from there that suggest it might be. I would have liked to have seen some resolution on the enigmatic statements made by Petterson (1997) that *W. vernica* (= *W. littoricola* subsp. *vernica*) is a New Zealand endemic but also apparently present in Tonga. Irrespective, events have now overtaken this issue because *W. littoricola* subsp. *vernica* is present on Norfolk Island, where it is regarded as native, and so it is clearly indigenous to New Zealand (de Lange et al. 2005).

Otherwise I can see little point in debating over such variable characters raised by Petterson (2005) to assert the distinctiveness of *W. littoricola* from her *W. vernica* (= *W. littoricola* subsp. *vernica*) such as consistency of flower colour (it varies in Australian subsp. *littoricola* as well I can assure you), ecology (both grow near the coast and both grow inland, besides which the species epithet “*littoricola*” means “dwelling near the sea”), leaf phyllotaxis (which is rather variable in both subspecies), or defining a consistent measurable range for “shortly campanulate”, “campanulate” or “deeply campanulate”, characters in my experience can vary on the same plant. The point is that Petterson is entitled to her views and I mine but the reasoning behind taxonomic decisions should, indeed must, be elaborated so that others can form their own opinions.

Ultimately in defence of both assessments I think that it cannot be denied that New Zealand *Wahlenbergia*, as indeed Smith (1992) himself had admitted for the Australian species, are a difficult group. They are poorly collected, key diagnostic characters are difficult to preserve or often missing, flower colours fade over time (or change from white to blue and blue to white!), and the flowers and fruits are targeted by insects unless carefully curated. Considering these problems I strongly maintain that Petterson (1997) provided a truly remarkable revision, bringing together years of careful and patient study of plants in the wild and in her garden. Nevertheless her work is still primarily based on morphological characters supplemented with some chromosomal and ecological evidence. In this day and age, with such difficult genera, such revisions should be augmented with any number of the wealth of other technologies now available that can help resolve such problem groups. In particular, I see a need to further test Petterson's taxa using a much wider sampling and key molecular markers.

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Amy Hodgson's early plant collection finds a new home at Te Papa.

Amy Hodgson, Helen Druce's mother, was an amateur botanist who became internationally known and respected for her pioneering research on liverworts. For this work, at 87, she was awarded an honorary Doctor of Science from Massey University, where her bryophyte collection is held. However it is Dr Hodgson's early collection of native vascular plants, compiled in the 1920s, which Helen inherited and has now donated to Te Papa. Dr Barry Sneddon and Dr Patrick Brownsey are very grateful to acquire the collection because Hawkes Bay plants are poorly represented in the Te Papa herbarium, and Amy's collection is in remarkably good condition, with each specimen carefully mounted and annotated. It is a privilege to handle these specimens collected so long ago, lovingly preserved in pursuit of a hobby which became a passion, and which contributes significantly to the sum of knowledge of Hawke's Bay botany.

Barbara Mitcalfe

Wellington Plant Conservation Network reactivated

On Tuesday 14 March 17 invitees attended a meeting at Otari-Wilton's Bush Visitors' Centre to consider a proposal to reactivate the WPCN. The following were represented: GWRC, DOC, Excell, WCC Parks and Gardens, BotSoc, Otari, Wellington Botanic Garden, Berhampore Nursery and Karori Wildlife Sanctuary. The Queen Elizabeth II National Trust sent an apology. Convenor John Sawyer outlined the history of the WPCN including how it had led to setting up the NZ Plant Conservation Network. Attendees were in agreement that the WPCN could fill a very useful range of roles such as providing direction, coordinating a range of plant conservation activities, offering expertise and advocacy and creating new and strengthening existing partnerships. Those attending plan to meet again in May with information on their current plant conservation projects and suggestions for projects to be achieved in the next 12 months.

Barbara Mitcalfe

Cape Palliser purchase secures stunning coastal landscape

In keeping with the government's Conservation Policy to increase protection of coastal land, Conservation Minister Chris Carter has announced the purchase of the Stonewall Block, a 121-ha coastal property near Cape Palliser, south Wairarapa coast. It will be managed as scenic reserve by DOC, protecting a pristine area as well as securing important recreational opportunities. Rising from sea level to the Aorangi Forest Park boundary, and from the western part of Ngapotiki Fan to a boundary with land owned by the local iwi, Ngati Hinekawa, Stonewall Block has a diverse range of regionally threatened plant species and communities that make it an extremely important biological area almost unique in the lower North Island. In combination with the adjoining Aorangi Forest Park it will provide complete sequences of vegetation from shoreline to hilltop that are not protected elsewhere. The Ngapotiki Fan which has scientific and educational values will also be protected. One of the conditions of sale is to continue to exclude 4WD vehicles to protect the biodiversity of the area. Grazing will cease after the end of April 2007.

Adapted from a Press Release.

For more information, contact Allan McKenzie, Manager, Land Conservation, DOC, ph. 04-371 3099.

Matiu Matters

A start has been made in establishing a garden plot to hold specimens of some of the threatened plants of the Wellington region. A site beside "Forest and Bird House" was expanded by removing flax, hebe and senecio growing there, and by digging into the bank. Weed mat was laid and covered with bark chips. Two irrigation lines were laid by Lower Hutt Forest and Bird and an automatic timer unit installed by DOC. An initial list of 30 species was reduced to 17 by John Sawyer and Rob Stone. Some that were taken out were *Pimelea prostrata*, *Peperomia urvilleana*, and *Linum monogynum*: they had been suggested because they are present on the island but with only one observed specimen. Planting will begin in May. In July 2006 it will be 25 years since the revegetation programme began. This year's planting will see the project largely complete. Most plants will be the successional shade/shelter-preferring species being held in the North and South nurseries. No. 2 nursery for pioneer species has been closed and the plant boxes disassembled. BotSocers are invited to help with the fortnightly planting from 28 May. (See events section).

The forest, now well established on Matiu/Somes, has new inhabitants! Eighteen North Island robins were released with due ceremony and blessing on 5 April. These delightful people-friendly little birds join red-crowned kakariki, now well established and breeding successfully. There are (estimated) 60 present despite predation by NZ falcon. (What would you do if you saw an endangered bird attacking an endangered bird?)

The island remains open to the public but visitors are still limited to the circuit track and the Field Centre. Forest and Bird House will not be available until the area around the quarantine station, where asbestos roofing has been replaced, is cleaned up.

Stan Butcher

Call for applications for Wellington Botanical Society Jubilee Award 2006

Wellington Botanical Society invites applications for an Award of up to \$2000 to encourage and assist applicants to increase knowledge of the New Zealand indigenous flora, and to commemorate the 50th Jubilee of the Society.

Purpose of the Award

The Award is open to anyone working in New Zealand and will be granted for: field work; artistic endeavour; publication; research; propagation or cultivation of NZ native plants for educational purposes and/or other studies which promote the better understanding of the NZ indigenous flora and vegetation. The interpretation of these conditions will be flexible, except that the main criterion will be the furtherance of knowledge or promotion of the intrinsic value of the indigenous NZ flora and vegetation.

The Award may be used to defray costs such as travel, accommodation, materials or publication.

Applications for the Award

Applications should be made in typescript to: Secretary, Wellington Botanical Society, PO Box 10 412, Wellington, by 15 November 2006. There is no prescribed application form, but the following must be provided:

- the applicant's name, postal address, telephone number, any relevant position held;
- a summary statement of the applicant's accomplishments in the field of botany (no more than one page);
- an outline and timetable for the proposed project for which the Award is sought;
- a proposed budget for the project.

Selection

The award will be made to one or more applicants selected by a subcommittee nominated by the general committee of Wellington Botanical Society. Award(s) will be made, and applicants informed of the results in writing, by 24 December 2006. Successful applicants will be required to provide, at an agreed time, a short report on what they have achieved and an account of their expenditure of Award funds.

The names of Award recipients, the value of the Award(s), and a synopsis of the project(s) will be published in the Annual Report of Wellington Botanical Society.

*Barbara Clark,
Secretary*



Carex geminata.
Illustration by Bryan Halliday.

Over the hill

A few recent happenings reminded me that there is nothing better than sharp eyes (backed up by a decent brain, of course) when it comes to the world of plants. The recent recognition of *Pseudowintera insperata* from Northland (yet another from that treasure trove) is a classic tale of how a species can be not quite one thing, not quite another and, like a chameleon, can masquerade as both. The Tararua Range's own *Myrsine* played similar tricks until it too was uncovered, though in this case it only hid behind one of its relatives. One of the most valuable things about the BotSoc field trip was always that long line of plants to be looked over at lunchtime or the end of the day, often backed up with some pretty sharp questions about why it was this, and not that, particular entity. There might be any number of new and precise ways to back up a theory about whether an entity is one thing or another, but in the world of plants it is usually the eyes that have it, at least in the beginning.

A few days back one of the folk at work came in with an "I thought I saw..." after a visit to the Pukaha plants to see how their fruit set was coming on—in this case it was indeed some new plants, a few metres away from the known ones, but still in an area that had been well picked over in the past couple of years, and thanks to the wonders of technology, my initial questions about it were answered with "I've got a photo of it here" as Tom whipped out his phone and flipped up a perfect close up of a *Dactylanthus* flower head poking out of some leaf litter, its rhizome still buried out of sight.

Tawa is in heavy fruit at the moment, and as I have been finding out occasionally, is yet another thing on the forest floor that can easily enough be mistaken for *Dactylanthus*, but I still look, and keep looking!

And in much the same way *Alepis flavida* made a reappearance close to sixty years after Tony Druce collected the first (and only) specimen from the eastern Wairarapa. BotSoc made a special trip to the general area some years back on what must easily have been the hottest day of the decade, but *Alepis* was nowhere to be seen. It now must surely rate the Wairarapa as the mistletoe capital of the country! (*Alepis*, *Ileostylis*, *Tupeia*, two species of *Peraxilla* and three species of *Korthalsella* can all be found over here.)

Finally, congratulations to Clive Paton, whose Waihora covenant was home to a recent weekend for BotSoc, on winning the Supreme Award at this year's Ballance Farm Environment Awards. The protection and pest control that Clive, his neighbouring landowners and Greater Wellington Regional Council have initiated at Waihora is happily not an isolated case and is becoming more and more the norm as the bark of the possum is stilled over larger and larger tracts of land, to be replaced by the chortle of the tui.

Tony Silbery

Karori Tunnel eastern portal

The native plants supplied by WCC for the previously weedy, unsightly, over-steep slope above Karori Tunnel are now growing strongly. We hope Berhampore Nursery will be able to supply plenty of *Phormium cookianum* this Spring to reduce maintenance by preventing rampant weed growth, and to complete the site's ecological objectives.

Wellington City plantings

Following WCC's invitation to the public last year to submit ideas for "Greening the Quays" plantings, BotSoc discussed a range of ideas and criteria with members of the Urban Development Group. We suggested replacing their preferred choice of Norfolk pines, with a mix of indigenous Wellington species, including some non-tree species which need less trimming and are less likely to interfere with underground utilities. Clear views for pedestrians and those driving or cycling is clearly another criterion. An important criterion for us, was the desirability of designing more street plantings with a view to enhancing urban indigenous biodiversity, such as the very successful use of the threatened shrub *Muehlenbeckia astonii* on Jervis Quay median strip. Jonathon Bussell, manager of WCC's Berhampore Nursery strongly supports this criterion and is keen to supply more threatened native plants such as *Muehlenbeckia astonii* and *Euphorbia glauca*. Other eco-sourced native species such as *Griselinia lucida* and *Chionochloa rubra*, and also a range of native cultivars will be used for street plantings. We do not know what the final selection of plants will be but we are pleased to have had some input.

Barbara Mitcalfe

Riverscape botanical mural

Have you seen Ellen Coup's 60-metre long mural on The Terrace, opposite the west end of Ghuznee Street?

Ellen began the mural in February, and completed it early in April. Her research involved Wellington BotSoc, Royal Forest and Bird Protection Society, and Wellington Public Library. "I found a book in the library called *Wellington's Living Cloak*, which was really inspirational". Ellen describes the mural as "an ode to the indigenous vegetation of Wellington". The "Riverscape" was funded by Wellington City Council, and cost about \$8000. Once signs are erected, it will be formally unveiled.

Reference: *The Wellingtonian*, 23/2/06.

(*Wellington's Living Cloak – A Guide to the Natural Plant Communities* was written by Isobel Gabites, and published in 1993 by Wellington Botanical Society and Victoria University Press.)

Road reserve plantings

We congratulate Berhampore Nursery for continuing to supply annually, free of charge, a range of hardy, Wellington native species for road reserve and revegetation purposes. Thousands of these "bombproof" plants are distributed in Spring each year in response to applications by individuals or groups. There is no guarantee of supply because sometimes it is exceeded by demand, but if you are interested in improving the amenity and indigenous biodiversity of road reserve by planting near where you live, you can make a written application to Jonathan Bussell, Manager, Berhampore Nursery, WCC, PO Box 2199, Wellington. Now is a good time of year to do this. The planting and subsequent maintenance are the responsibility of you and/or your group, but in this way we can put into practice our enthusiasm for native plants by helping to return them to the urban scene.

Barbara Mitcalfe

Fungal Network of NZ

The network is a new society that was incorporated after the 19th NZ Fungal Foray at Ohakune. Check www.funnz.org.nz for membership form, photos of past forays, more information, and links to other mycology sites. Subscription: \$15 – waged, \$10 – unwaged. The financial year is 1/3/06 – 28/2/07.

QEII Trust Open Space Covenants

The trust has recently registered the following Open Space Covenants in the Wellington region:

- Horowhenua D.C./Landcorp Ltd. 4.0 ha wetland
- Masterton D.C./Beetham.- 6.8 ha forest, treeland, shrubland
- Masterton D.C./Scott – 80.5 ha forest, shrubland, wetland
- Masterton D.C./Scott – 13.7 ha forest, shrubland, wetland
- Carterton D.C./Goodin – 2.4 ha forest
- Kapiti Coast D.C./Lincoln – 1.7 ha forest
- Kapiti Coast D.C./Palmer – 2.1 ha treeland, wetland
- Upper Hutt C.C./Glazebrook – 2.7 ha shrubland, wetland
- South Wairarapa D.C./Donald – 10.5 ha – forest.

Source: Open Space No. 66, 3/06

Land protection

Wellington Conservancy, Department of Conservation, has recently protected the following sites:

- Mokiri Bush Scenic Reserve. Wairarapa Area. 121.48 ha purchased from former owner. Involves ROW through private land, subject to special conditions for access. Northern part of RAP 7, Eastern Wairarapa PNAP report, comprising rewarewa-tawa(rimu) forest on upper hill slope; with manuka and kanuka hardwood forest on lower hill slope and gully.
- Hutton's Conservation Covenant. Kapiti Area. 9.5567 ha. Owner: Hutton Farm Estate Ltd. Native forest valuable as habitat for land snails.
- Ruamahanga Conservation Covenant. Wairarapa Area. c. 5.5 ha. Owner: C.J. Hudson QC & L.P. Goddard. Part RAP 11, Wairarapa Plains PNAP. Kanuka forest on gully terrace and scarp, and otara/matai/titoki on riparian flat.
- Hoskins Covenant. Wairarapa Area. c. 5 ha in 4 side-by-side certificates of title. Owner: C & B Hoskins. Regenerating shrub forest, comprising kanuka, cabbage tree, nikau, matai and mahoe, adjoining east side of Rimutaka Forest Park.

David Bishop, Wellington Conservancy, Department of Conservation. Ph 472 5821

Nominations sought

If you have suggestions about who BotSoc should nominate for:

- Loder Cup
- H. H. Allan Mere Award
- Conservation Award

please contact Barbara Clark, Secretary, Wellington BotSoc, PO Box 10 412, WN. Ph 233 8202, fax 233 2222, kevin.clark@clear.net.nz

Reports from the committee

Among the topics discussed at the 23 March committee meeting were:

- 26 members have yet to renew their subscriptions
- 2006/07 summer field trip
- Bulletins – digitising them so that they can be put on web site
- Bulletin No. 50 - progress
- H.H. Allan Mere Award - nomination
- Weedbusters 2006 Award - nomination
- Loder Cup - nomination
- WBS Jubilee Award
- Easter field trips 2006 & 2007
- Wellington Plant Conservation Network - reconvening
- Iron-hearted Trees, by Dr Philip Simpson – sales by BotSoc
- invitation cards to specific people to attend evening meetings
- Manawa Karioi Ecological Restoration Project “Adopt-a-plot” scheme
- WCC Community Grants Scheme – changes
- Wellington Conservation Board - vacancies
- Science Fair 2006 – WBS Award
- Lucy B Moore Scholarship Fund – request for donations

Editor

Stan Butcher QSM

We congratulate Stan who was awarded the Queen's Service Medal in the New Year's Honours for his environmental work in the community.

When Stan was in the 6th form at Napier Boys' High School in 1940, he painted a grim picture of the way we had treated our environment, but predicted that things might only get worse. He wrote “Imagine how ridiculous it is to replace native bush, which abounds in wildlife and good timber, with the dark and sombre pines of doubtful value as timber, and in which very few of our native birds will live. We have seen what the last 100 years have brought to this fair land, but do we know what the next will bring? Will we see rapid regeneration of the native fauna and flora, or will we see a continuation of the present policy of taking all that a bountifully endowed land will give, and of giving nothing in return?” It's a question that remains valid 65 years later, although in the intervening years, Stan has done his best to make sure that we do not destroy our environment.

Since he retired in 1981, Stan has put thousands of hours into battling for our native plants and birds.. He is a long-time member of BotSoc, and is chair of Lower Hutt Branch, Forest and Bird Protection Society. Stan is one of the stalwarts who have revegetated Matiu/Somes Island.

“We can't look forward with any confidence to maintaining our current lifestyle. Politicians seem reluctant to take the issue seriously, and with the population rapidly increasing, our flora and fauna is on a ‘path to destruction’”

Source: “The Hutt News”, 10/2/06

Wellington Botanical Society Jubilee Award – 2005

We congratulate Rilka Taskova, PhD, Post-doctoral Fellow, School of Biological sciences, Victoria University of Wellington, recipient of the 2005 Award.

Research project title: "Chemotaxonomy and evolution of *Heliohebe*".

Project description: *Heliohebe*, formerly recognised as *Hebe*, was segregated as a distinct genus by Garnock-Jones, 1993. It includes five species confined to the north-eastern parts of the South Island. *Heliohebe* species are the closest relatives of *Hebe* and are important garden plants. Studying their diversity and relationships is important for understanding the evolution of New Zealand's flora and conservation. The aim of the project is to provide a new chemical approach to assess the phylogeny and evolution of genus *Heliohebe* and its relationship with other members of the *Hebe* complex.

For more information, contact rilka.taskova-stamenova@vuw.ac.nz ph 463 5233 ext 8136, fax 463 5331.

Scurvy grass tops poll

Cook's scurvy grass/*Lepidium oleraceum* was voted NZ's most popular plant in the NZ Plant Conservation Network's poll result announced in December 2005. This threatened plant occurs in the Wellington region only on Mana and Kapiti islands. Captain Cook made his sailors eat it during their exploration of New Zealand, because its vitamin C content helped to ward off scurvy.

Source: "The Dominion Post", 3/12/05

Short-tussock grassland – ecological values - threats

The valley-floor, short-tussock grasslands of the Mackenzie Basin contain important elements of our flora and fauna that are not found elsewhere. They provide habitat for three endemic grassmoths of the genus *Orocrambus*, with another rare species shared with Central Otago—the females of all four species are short-winged which greatly limits dispersal, and makes them prone to local extinction. These valley-floor grasslands are special and must be retained and protected. We have abundant literature about insects from the late Graeme White's recent work, and others, and a PNA report to base a case around.

The future of the low-tussock grassland and low shrubland looks bleak, because so little is protected, and the axe, in the form of irrigation, is about to fall on another area. There are large, green pasture areas and dairy cattle now entrenched at Glenbrook. There are still remarkably good examples of these indigenous plant communities south of the irrigated areas towards Omarama, and north towards Tekapo, but it seems only a matter of time before they are developed and irrigated.

If we do not act now, the Mackenzie Basin will look like most of Central Otago in no time, and we will soon forget how distinctive they are, or were. Please send your ideas for how we can work to protect the remaining short-tussock grasslands to Brian Patrick, on whose e-mail this article is based: bpatrik@xtra.co.nz

Lucy B Moore Memorial Scholarship

After Lucy Moore's death a scholarship was set up to honour this much-loved New Zealand botanist, by her old school, Epsom Girls' Grammar. Lucy attended E.G.G.S. in the 1920s and was dux in her final year. During her subsequent career with DSIR, and in her long and productive retirement, she was always keen, in her quiet way, to encourage others. Botanical artist Bruce Irwin gives a lovely account of her collaboration with him (Irwin, 2006) (safe now to tell!), and this is no doubt a typical example of her generosity and quiet determination to help others she judged had a contribution to make.

The scholarship consists of a book prize, usually around \$60, and a scholarship of \$500 to the top Year 13 (final year student) who intends to study the biological sciences at university, and it has been running since 1988. The current interest on the principal in the fund is only sufficient, however, to continue the scholarship at about one third of this level. Botanists who contributed then, and others, might like to make a donation to revitalise this award.

Cheques should be made out to:

'Epsom Girls' Grammar School Foundation' clearly marked that they are for the 'Lucy B Moore Memorial Scholarship' and posted to:

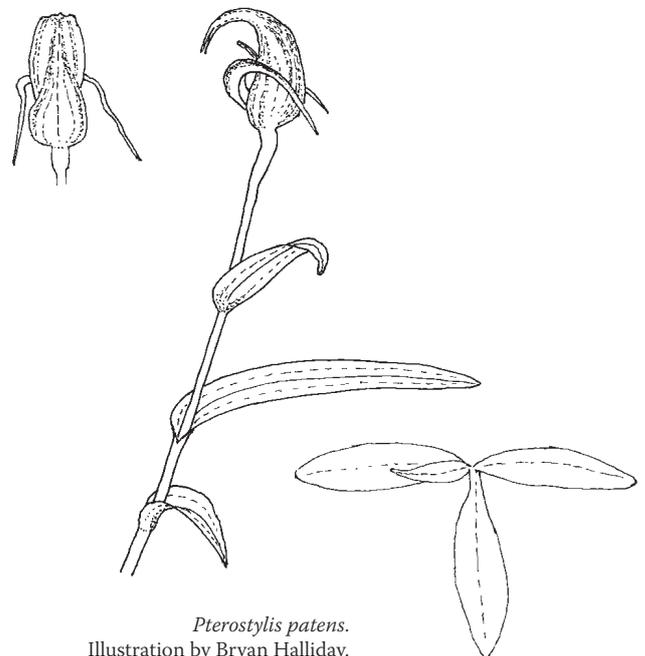
Epsom Girls' Grammar School,
Silver Road,
Epsom,
Auckland 3.

To add a personal memory: Ross Beever was invited to speak at Lucy's funeral about her contribution to science. A nephew, who had contributed obviously very happy memories of a favourite aunty, came up to us afterwards and thanked Ross for explaining some mysteries, adding "We always knew she was terribly clever, but we didn't know what she actually did!"

Jessica Beever

Reference

Irwin, JB (2006) Lucy Moore - New Zealand botanical artist. *The New Zealand native orchid journal* 98: 18-19.



Pterostylis patens.
Illustration by Bryan Halliday.

TRIP REPORTS

3-4 December 2005: Eastern Tararua Range, Wairarapa

Day 1: We botanised impressive forest along the Waiohine Valley track from the swingbridge to Clem Creek, listing about 130 species of indigenous vascular plants. Among the features were five podocarp and three beech species, hutu/*Ascarina lucida*, and kiekie/*Freycinetia banksii* in flower, the latter being evidence of possum control work.

Day 2: We botanised river-terrace forest owned by Trevor and Jenni Bornholdt, on the True Left of the Waiohine River. We found the orchid, *Drymoanthus adversus*, epiphytic on titoki, poataniwha, tawa and totara, and outside the fenced area, the mistletoe, *Ileostylus micranthus*, growing on *Coprosma propinqua*. We saw “*Hoheria* Tararua”, northern rata, two aquatic plants, retoreto/*Azolla rubra*, and kaarearea/common duckweed/*Lemna minor*, and listed several adventive plant species.

We thank Pat McLean for accommodation at his Te Pamu



Drymoanthus adversus. Photo: Jeremy Rolfe.

covenant on Waiohine Gorge Road, and Trevor and Jenni Bornholdt for permission to visit their property.

Participants: Bev Abbott, Geoff Doring, Bryan Halliday, Chris Hopkins, Chris Horne (scribe),

Brenda Johnston, Gordon and Sheelagh Leary, Pat McLean (leader), Rodney Lewington, Barbara Mitcalfe, Mick Parsons, Darea Sherratt, Glynn Sherratt.

17 December 2005: Hutt City Rata Walk

In warm, humid weather, we met at Hutt City I-site Visitor Centre, Laings Road. Unlike our first Rata Walk, (December 2004), there were fewer “spectacular” shows of blossom, particularly noticeable with the Penrose Street, Belleview Road, and Waiwhetu Road (St Paul’s Anglican Church) trees, though the second (vicarage) tree round the corner in Guthrie Street offered a good photo opportunity. This tree has recently been spared from felling, owing to the concerted interest of several parties including BotSoc. The garage will now be demolished to make way for the tree, rather than the reverse. We lunched under trees near Waiwhetu Stream, the marae and the new whare waka, after viewing 4–5 rata nearby. Because the “show” of flowers on the naturally occurring rata on the lower eastern hills was not particularly

visible this year, we made a detour to a smaller tree on the berm at 74 Collingwood Street to view flowers and foliage close up. We saw three much larger rata at Waterloo Road, then walked past St Bernard’s College, through Marina Grove (art-deco houses) to a rata in King’s Crescent, near the lovely, well maintained, attractive old homestead of the late Sir James Hector. From there it was down Pretoria Street and on to the western stopbank of Hutt River and the sad sight of the declining Daly Street rata. As this fine tree is on private land not much can be done apart from encouraging the property owner to look after it, and we understand that a Hutt City Council arborist is monitoring the situation. On a brighter note, three relatively new rata plantings are doing very well in the reserve at the north end of Victoria

Street near Ewen Bridge (not visited).

As we walked, BotSoc took the opportunity of pointing out other items of interest to members of the public who joined the walk, e.g. epiphytic pohutukawa and nikau. Using roadside examples, Barbara showed us the differences between our ngaio *Myoporum laetum*, and the closely related boobialla, *Myoporum insulare* of Australia. Photographs of last year’s luxuriant rata blossom were shown, and a vote of thanks was given by our guests at the conclusion of another very successful trip.

Participants: Margaret Aitken, Barbara Bond, Anne Henderson, Dave Holey, (Leader and scribe), Chris Horne, Karen Kasprick, Noriko Kaneko, Maureen Longman, Allannah Mathieson, Barbara Mitcalfe, (deputy leader), Julia White.

28 December 2005 – 6 January 2006: Ruahine Range and Hawke’s Bay

This report will appear in the next Newsletter.

21 January 2006: Gilbert Bush Reserve, Newlands

A large number of people turned out on a hot summer day to Gilbert Bush Reserve in Newlands. Armed with a species list compiled mainly by Mrs Iris Coulter and Mr E.W. Williams on 6 July 1974 on a Wellington Botanical Society trip, we set out to determine what changes had occurred in the intervening years.

The area is a steep-sided gully which runs from near the top of Newlands down to the Hutt Road. Slowly moving down the side of the gully we found a number of large *Fuchsia excorticata* and a very large *Griselinia lucida* and *Hebe parviflora*. Not being able to get further down the gully, we retraced our steps back up and then crossed the head of the gully and worked our way around to the other side. Along this part of the track were *Elaeocarpus dentatus* and *Dysoxylum spectabile*. We saw a good variety of ferns such as *Blechnum fluviatile*, *Poystichum vestitum*, *Adiantum cunninghamii* and

Blechnum chambersii were observed. We lunched on the track not far from the entrance.

After lunch some of the party walked down the road to a similar patch of bush adjacent to the old Horokiwi landfill. Although almost the same species were seen, this area seemed more advanced in age and recovery than Gilbert Bush.

A new track system is being formed by contractors to Wellington City Council in Gilbert Bush Reserve will enable easier access to the area for locals and visitors.

Participants: Bev Abbott, Amber Bill, Eileen Bredin, Barbara Clark, Penny Currier, Frances Forsyth, Bryan Halliday, Kath Henderson, Chris Horne, Brenda Johnston, Zena Kavas, Lysie Kerr, Rodney Lewington, Barbara Mitcalfe, Merrin Pearse, Jan Rowland, Darea Sherrett, John van der Sman, Robyn Smith, Julia Stace, Louise Taylor, Jon Terry, Julia White.

Robyn Smith



Blechnum fluviatile. Photo: Jeremy Rolfe.

4–5 February 2006: Northwest Aorangi Range

We met at the property of Clive Paton in the Waihora Stream valley and proceeded to a side valley which enters Aorangi Forest Park on its northwestern boundary. The valley is steep-sided in the main with a couple of places where it has broadened and left an area of flat ground either side of the stream. The site has a number of species that are not listed on the A.P. Druce list, reflecting the fact that most botanising in the Aorangis has previously been done from the more accessible eastern side.

Waihora Stream, and to a lesser extent the side streams, have a varied and interesting fish population as trout have not been able to get into the catchment. The native fresh water crayfish is also present in some numbers. Further up the Waihora in another side stream a large population of northern rata (*Metrosideros*

robusta) has been found, augmenting the known population of a handful of trees.

It did not take long for the group to breakup with some people going up the streambed (to the delight of the local mosquito population) and another group taking a higher route midslope. The gossamer grass, *Anemanthele lessoniana*, was in flower and attracted a lot of positive comments, and the sedge species, which are many and varied in the area, provided a good opportunity to familiarise people with specific characteristics. *Carex raoulii* and *C. unnamed sp.* ("raotest") grow in close proximity, and it was an ideal situation to note the differences between the two species.

Near the lunch spot, a prickly surprise was the leafless lawyer / *Rubus squarrosus*.



The population of the fern *Doodia mollis* was surveyed and although being a relatively small patch, it seems to be thriving. Unfortunately the native carrot (*Daucus glochidiatus*) was not seen, as it had done its thing for the season and disappeared until next Spring.

The trip ended a little early for the trip leader when he managed to put his gumboot squarely on a wasp nest and get stung about 15 to 20 times. Two things he was very glad about were the fact that antihistamine tablets were available and that he was not wearing boxer shorts. The intense itching that follows for a week is not something that can be recommended.

Participants: Bev Abbott, Gavin Dench, Geoff Doring, Jenny Doring, Pat Enright, Chris Hopkins, Chris Horne, Gordon Leary, Sheelagh Leary, Rodney Lewington, Barbara Mitcalfe, Mick Parsons, Leon Perrie, Colin Scadden, Darea Sherratt, Tony Silbery, Sunita Singh, Maggy Wassilieff.

Pat Enright

Rubus squarrosus. Photo: Jeremy Rolfe.

Easter 14–16 April 2006: South Wairarapa

Friday

Fine weather added to our enjoyment of the opportunity to botanise two fenced remnants on Waiorongomai Station, owned by Mr C. Matthews. Often glimpsed from Western Lake Road on previous trips but not visited by us, these two substantial remnants “Wilderness Bush” and “Karaka Bush” held our attention for all of Friday. Remarkable for the age and impressive stature of its trees, Wilderness Bush podocarp/broadleaf remnant contains numbers of large, (est. 20m) *Streblus banksii*, many heavily infected with the parasitic “witches broom”. This is the common name of one of the eriophyid mites which cause abnormal growth on some species, e.g. galls on some *Hoheria* spp., “witches broom” on kakabeak and *Streblus banksii*, tip growth distortion on karaka and felty patches (erinea) on the underside of e.g. grapes, walnuts and puriri. (I am indebted to Rob Lucas and Barry Sneddon for this information.) Titoki, ti kouka and kahikatea share the canopy with matai, kahikatea, lowland ribbonwood and karaka. Among epiphytes such as abundant *Earina mucronata* and *Pyrrosia eleagnifolia*, numerous large epiphytic nests of *Collosporum hastatum* are a feature—we admired their multicoloured racemes of ripening fruit hanging in dense panicles. No podocarp seedlings were observed and

we assumed rabbits are responsible, despite the presence of a rabbit-poison station. The liane *Metrosideros colensoi* is not uncommon and gnarled, ancient coils of kohia, (est. d.b.h. 11 cm) coil for many metres along the forest floor. The groundcover is mostly sparse *Hypolepis ambigua* and *Lastreopsis microsora*. Outside the fence is a park-like area, with many large tawa, ti kouka and huge, old kahikatea, survivors of the former, continuous forest. *Drymoanthus adversus*, on titoki, was our only addition. As with “Wilderness Bush”, “Karaka Bush”, an 8.3-ha L-shaped remnant, features very large, old, trees. Its canopy is almost entirely composed of mature karaka and titoki. The very few canopy gaps have permitted little regeneration, mostly karaka, and are probably responsible for the almost complete lack of weeds. Both remnants have a serious, resident rabbit problem.

Saturday morning

Gavin led us up a True Left tributary of Mukamuka Stream in search of *Chionchloa beddiei* but we found none in the time I was there. Among trees and shrubs, *Olearia arborescens*, *Parahebe* sp. in flower and *Brachyglottis greyi* clung to the steep, eroding slopes between tussocks of *Poa* sp. most likely *Poa anceps* subsp. *anceps*, (subject to confirmation)

Barbara Mitcalfe

Saturday afternoon

We botanised a steep True Right tributary of Mukamuka Stream and prepared a plant list.

Sunday morning

We climbed the True Left side of Corner Creek to check the *Pseudopanax ferox* colony and returned to the bach for lunch.



Pseudopanax ferox. Photo: Jeremy Rolfe.

Sunday afternoon

We visited the impressive Hinau Flats QEII Covenant and saw a gigantic rimu almost 2 m diameter, an enormous mahoe with a hollow trunk, and a hinau with a 1.6-m diameter trunk. We noted numerous possum bait stations, and prepared a plant list.

Sheelagh Leary

We thank Mr Charlie Matthews for permission to botanise “Wilderness Bush” and “Karaka Bush”; Pat Enright for plant lists and a briefing on 14 April; Sunita and Gavin for generous hospitality at their bach.

Participants: Margaret Aitken, Barbara Clark, Rae Collins, Gavin Dench, Chris Horne, Gordon and Sheelagh Leary, Pat McLean, Cliff Mason, Barbara Mitcalfe, Joyce Stretton, Sunita Singh.



Brachyglottis greyi. Photo: Jeremy Rolfe.

**REGISTRATION - WELLINGTON and OTAGO BOTANICAL SOCIETIES
SUMMER CAMP 2006-2007**

- 1. Stewart Island; December 28 (evening) 2006 to January 5 (morning) 2007**
- 2. Catlins; January 5 to January 11 (morning)**

Please send this registration form together with a deposit of \$150.00 per person to:

(until 8 June 2006)

Joyce Stretton

7 Ravi Street,

Kandallah, Wellington 6004

Tel (04) 934 2437

E-mail: wilson1@paradise.net.nz

(8 June 2006 to 1 Nov 2006)

Rodney Lewington

4 Highbury Crescent

Wellington 6005

tel: (04) 475 3145

E-mail: rodnejil@xtra.co.nz

(after 1 Nov 2006)

Sheelagh and Gordon Leary

PO Box 48 110

Silverstream

tel: (04) 527 7380

Email: GandSLeary@xtra.co.nz

We realise that at this time that your intentions may be tentative but we do need to have an indication of numbers and requirements if we are to be certain of holding the reservations already made. To this end registration by 30 September is required. (First come first served. Late applications may be accepted if spaces remain.)

REGISTRATION FORM

Name/s:,,

Address:

Phone: () **E-mail:**@

My cheque for \$..... is enclosed. (Payable to Wellington Botanical Society Inc.)

Special Requirements: Please tell us if you have any special food/health/other requirements.

Stewart Island (Enter the number of people in the squares please)

Preferred Accommodation Camp . Bunk room from.../.../0....to.../.../0...

Catlins (Enter number of people in squares please)

Bunk rooms only available from.../.../0to.../.../0...

I/we require bookings on the ferry: Bluff to Oban 5pm 28 Dec 06 ; Oban to Bluff 8am 5 Jan 07

I am likely to have a vehicle and could transport additional people to those listed above:

Dunedin to Bluff 28 Dec ; Invercargill to Bluff 28 Dec ; Bluff to the Catlins 5 Jan ; Catlins to Dunedin 11 Jan

(Please enter the number of additional people you are likely to be able to transport on each leg)

I/we will probably need transport. (This would be on a share cost of petrol and car storage at Bluff)

Dunedin to Bluff 28 Dec ; Invercargill to Bluff 28 Dec ; Bluff to the Catlins 5 Jan ; Catlins to Dunedin 11 Jan

ACCOMMODATION

Stewart Island Backpackers (was Shearwater Inn), December 28 (evening) 2006 to January 5 (morning) 2007

We have booked 25 bunks and 15 camp sites. (Bookings will be accepted in the order that they are received. Late comers might need to book their own accommodation which will probably be more expensive.)

Usual Facilities including a large kitchen and TV room. Fees for bunk are about \$20 per night (\$24 with bed linen) and \$8 per person for camping.

Catlins - Tautuku Outdoor Centre, Tautuku Bay. January 5 to January 11 (morning). Usual facilities including large kitchen/dining area, hot showers, drying room. There is no camping.

The bunk rooms are expected to be \$15 per person per night.

For both locations the usual Bot. Soc. meals will be prepared by a roster of uniquely experienced chefs. Food is expected to cost \$15-20 per person per day.

TRANSPORT and TRIP CHOICES:

- Bookings have been made on the Bluff-Oban ferry for Dec 28 and Jan 5. (Currently \$47 per adult each way, We may get a discount.)
- Water taxis (at an extra cost) will be used for some trips in Stewart Island.
- Transport between Dunedin, Bluff and the Catlins will be by car pool.

On Stewart Island we may make day trips to Paterson Inlet, Ulva Island (for birds and plants), sub-alpine plants at Pryse Peak and Mt. Anglem and a number of places near Oban (Fern Gully, Ryans Creek, Garden Mound, Port William, Golden and Deep Bays.)

In the Catlins we'll see a variety of bush, sub-alpine and Southern Ocean plant communities.

More details about the camp, transport and possible trips will be sent out closer to the time of the camp Phone or e-mail us if you have questions about the camp, trips, maps etc. The comprehensive vascular flora for this area is Hugh Wilson's Field Guide Stewart Island Plants, Field Guide Publications 1982.

Wellington Botanical Society Inc. – Membership Application

(For new members, **NOT** for renewal of existing membership)

I wish to join the Society

My name Mr/Mrs/Ms/Dr..... Phone (.....) (h)

My address Phone (.....) (w)

..... Fax (.....)

I would like to receive my newsletters by e-mail as a PDF Please tick if appropriate.

My e-mail address@.....

Signature Date:..... / / 200...

The membership year is from 1 July to 30 June. Dues received after 1 May will be credited to the following year.

Type of membership: Ordinary \$20; Country \$15; Student \$5. Group / family \$25.

We welcome donations to support research into NZ native plants and to the Jubilee Award Fund.

Please make your cheque payable to Wellington Botanical Society Inc, and send it with this form to:

Wellington Botanical Society Inc., PO Box 10 412, Wellington

My cheque is enclosed for Ordinary membership \$.....

Country membership \$.....

Student membership \$.....

Group / family membership \$.....

Donation \$.....

TOTAL \$.....

Office use		
Action	Init.	Date
N/L, flyer etc		/ /
Ty. Address list		/ /
Ty Bank		/ /
Address label		/ /
Secretary		/ /

www.wellingtonbotsoc.wellington.net.nz



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