

Wellington Botanical Society

Te Rōpū Manāki i Ngā Tamariki a Tāne,
o Te Whanganui a Tara



NEWSLETTER September 2022

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President's message

Thank you all for your votes of support. I am looking forward to helping with the running of BotSoc affairs. First, I would like to thank Jon Terry for the work he has done as President over the last four years.

In recent months the committee has been discussing membership fees, increasing support to students, appropriate ways to thank guest speakers, plans for meetings and trips, the development of guidelines for incoming committee members, the design of an information poster about Wellington BotSoc to be displayed at the Ōtari-Wilton's Bush Visitor Centre and progress on BotSoc publications.

At the committee meeting it was also noted that the book *Wellington's Living Cloak*, published in 1993 by Wellington BotSoc and Victoria University Press is out of print. This book has served us well over the last thirty years but we wondered whether or not there was a continuing need for this type of guide to the natural plant communities of Wellington? What kind of resources about local plant communities are currently available, and is there a need for something more? If you have an opinion on this please contact Laura West, our secretary, at wellingtonbotsocsecretary@gmail.com or talk to me or a committee member at an evening meeting or on a field trip.

Frances Forsyth, President

New members

We welcome John Barnette, Katrijn De Bock, Gillian Parnham, Bev Scott, Suliana Teasdale and Shaun Thompson to our membership.

Helen White, Membership Secretary

Articles for web site

We welcome articles for consideration for inclusion on our web site:

www.wellingtonbotsoc.org.nz

Please send your article to:

Richard Herbert

e-mail herbert.r@xtra.co.nz

Writing for the Bulletin

Do you have a botanical observation, anecdote, or insight that you could share with others in BotSoc? If so, please consider contributing it to the Wellington Botanical Society Bulletin. There is still plenty of space in the next issue. For more details and assistance, contact Eleanor Burton at esmereldadoris93@gmail.com or 479 0497.

BotSoc on Facebook

<https://www.facebook.com/groups/322939557873243/>

This is the unofficial page for Wellington Botanical Society.

Wellington Botanical Society

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Send your subscription to our bank account 020536 0017812 00. Particulars: Name; Code: Membership type; Reference: amount of included donation.
New subscribers: Please complete form at the back of this newsletter.

Meetings

BotSoc meetings are usually held at 7.30 p.m., third Monday each month at Victoria University, WN – Lecture Theatre MYLT101, ground floor, Murphy Building, west side Kelburn Parade. Enter building 20 m down Kelburn Pde from pedestrian overbridge. No meetings December and January. Meetings are in person and usually available on Zoom.

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, and sometimes Easter and the first weekend in December.

DEADLINE FOR COPY FOR NEXT ISSUE – 20 November 2022

Articles may be edited for clarity and length

ATTENDING FIELD TRIPS AND MEETINGS POST LOCK-DOWN

Ideas please

We welcome your ideas about:

- places to visit on field trips, and potential leaders of those field trips.
- topics and speakers for evening meetings

Please send your ideas to Sunita Singh, PO Box 10 412, Wellington 6143, ph 387 9955.

Field trips—single day

A field trip, usually lasting 4–5 hours, is an opportunity to learn how to identify native plants and adventive plants (weeds). During the trip, experienced participants record the species seen. After it, a new or updated plant list will be produced for the site. This list will be published on the NZ Plant Conservation Network web site, and copies sent to trip participants, landowners and managers.

If you intend to join a field trip, PLEASE phone or e-mail 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 or e-mail in advance, you are welcome to join on the day. If you e-mail your intention, the leader will send you a copy of the draft plant list, so that you can print it out to bring with you. If you do not have a printer, tell the leader. At the meeting place, the trip leader will ask you to write on the registration form your name, e-mail address (so that you can receive the updated plant list), and a phone number for the leader to ring your next-of-kin in an emergency.

Booking on field trips: Give the leader/s your cell-phone number so that we can contact you if you are running late.

What bring—clothing

Choose from the following items, according to the weather forecast, and your personal needs: sun hat, woollen or polyprop beanie or balaclava, waterproof / windproof raincoat (parka) and over-trousers, long-sleeved cotton shirt*, singlet*, thermal or woollen top, woollen jersey or fleece jacket, nylon shorts or trousers*, polyprop long-johns, underclothes, thick socks, boots or walking shoes, gloves / mittens.

*Note: In wet, cold weather, do not wear cotton shirts, singlets, t-shirts and trousers.

What to bring—gear and food

Day pack with lunch, biscuits or scroggin, hot or cold drink, spare clothing, personal first-aid kit, note-book, pen, pencil, cell-phone, wallet. Optional: walking pole, clip-board, map or park brochure, camera, binoculars, hand-lens, sun-block, sun-glasses, insect repellent, whistle, toilet paper.

Field trips—overnight

Field trips usually last two days; at Easter, three days. We may be based at a camp-ground with or without cabins, or a rented house, or a private bach. The field trip may last 4-7 hours each day.

Overnight trip gear and food

Add to the day-trip gear, food and drink listed above: breakfast, fresh fruit, torch, spare bulb and batteries, candle, mug, plate, knife, fork, spoon, small towel, soap, tooth brush. If accommodation is not provided for, bring tent, fly, poles and

pegs, groundsheet, sleeping mat, sleeping bag, sleeping-bag liner and stuff bag. Optional: matches in waterproof container, water purification tablets, pocket knife, large plastic survival bag to line pack, gaiters. Note: dinners may be 'pot-luck'—ask the leader to suggest what your contribution might be.

Summer camps

These field trips last 7–10 days. Full details will appear in the newsletter.

Health and safety

The leader will bring BotSoc's comprehensive first-aid kit, a topographic map, a cell-phone, and give a health and safety briefing.

The leader will describe the route, and approximate times for lunch, tea breaks and the end of the trip.

Bring your own first-aid kit. If you have an allergy or medical condition, bring your own anti-histamines and medications, tell the leader of any problems you may have, and how to deal with them.

Before the trip, if you have any doubts about your ability to keep up with the party, discuss this with the trip leader, who has the right to restrict attendance.

If you decide to leave a trip early, you must tell the leader, and be confident that you know your way back to the start. Enter your name on the 'register' under a wind-screen wiper on the leader's car, or other agreed place, to record your safe return.

Fitness and experience

Our field trips are mostly on established tracks, and at a leisurely pace, but 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, you participate at your own risk.

Transport

When the use of public transport is practical, details will appear in the newsletter.

We encourage the pooling of cars for trips. If you need a lift, tell the trip leader.

Passengers: Pay your driver your share of the running costs. We suggest 10c per km / passenger. If a trip uses the inter-island ferry, pay your share of the ferry fare. If you change cars mid-trip, leave a written note for your driver, under a wind-screen wiper on her or his car, and check that your new driver adds you to her or his list.

Drivers: Ensure that you know the route to the start of the trip, and that you have a written list of your passengers. Zero the odometer at the start, and agree on a return time. Check from your list that all your passengers are in the car. Collect contributions towards transport costs.

Trip leaders

Draft a trip report for the newsletter, including a list of participants, then send it to the editor.

Other matters

If after your first BotSoc field trip, tell the leader if you think there is information newcomers would appreciate seeing about future trips, in the newsletter, on the web site, or on Wellington Glean Report.

If you would like to offer to lead a field trip, or be a deputy leader on a field trip, contact our programme organiser, Sunita Singh, sunita@actrix.co.nz

Meetings

Public transport to meetings

The following bus services stop on Kelburn Parade outside Victoria University's Murphy Building Lecture Theatre M101:

TO MEETINGS

No. 18e Miramar: 7.05 p.m. from Karori Park, 7.21 p.m. @ VUW.

No. 18e Karori: 7.00 p.m. from Miramar – Darlington Rd, 7.43 p.m. @ VUW, or 6.00 p.m. from Miramar, 6.43 p.m. @ VUW.

No. 21 Courtenay Place: 7.01 p.m. from Karori Mall – Beauchamp St, 7.13 p.m. @ VUW.

No. 21 Wrights Hill: 7.00 p.m. from Courtenay Place – Stop A, 7.08 p.m. @ VUW.

No. 22 Mairangi: 7 p.m. from Wellington Station – Stop C, 7.08 p.m. @ VUW.

No. 22 Wellington Station: 7.02 p.m. from Norwich Street, Wilton, 7.17 p.m. @ VUW.

Cable Car: 00, 10, 20, 30, 40, 50 minutes past the hour from Lambton Quay terminus to Salamanca Station. Ten-minute walk to Murphy Building lecture theatre M101 at VUW.

FROM MEETINGS

No. 18e Miramar: 8.05 p.m. is the latest bus from VUW, so catch a no. 21 or No. 22 to CBD—see nos. 21 and 22 below—then a no. 2 to Miramar/Seatoun.

No. 21 Courtenay Place: 9.13 p.m. or 10.13 p.m. from VUW.

No. 22 Wellington Station: 9.38 p.m. or 10.38 p.m. from VUW.

Cable Car: No service after 8 p.m.

For further information ring Metlink, 0800 801-700.

NOTICES

Events

- *2nd Saturday each month, except January. Ōtari-Wilton's Bush – Plant Care. Meet:* Tāne Whakapiripiri Visitor Centre, 160 Wilton Rd, Wilton at 9:00 a.m. **Bus:** No. 14 Wilton bus, Ct Pl 8.28, Molesworth St 8.36, alight Warwick St. **Planting:** winter months: **weed clearance** other months. *Wilbur Dovey. Landline 499 1044. Mobile 027 499 1044.*
- *5–11 September. Conservation Week.* www.doc.govt.nz
- *17 September. Ōtari Open Day.* Tours (plants free at end of tours), go behind the scenes; talks on 3 projects; etc. 160 Wilton Rd, Wadestown. See Ōtari report in this newsletter. Booking for tours recommended: <https://wellingtongardens.nz/events>
- *27–28 October. Tāne's Tree Trust partnered with Pure Advantage to plan this conference at Te Papa Tongarewa, Wellington.* See article later in this newsletter. www.otatoungahereconference.org.nz.
- *28 November – 1 December. NZ Ecological Society Conference – He Uru Kahika ki te Wao – Connections New Zealand, University of Otago, Dunedin.* See article later in this newsletter. [NZES 2022 Conference \(eventsair.com\)](http://NZES2022Conference(eventsair.com))

Awards and grants

6 October. Jubilee Award 2022 – Applications sought

The Wellington Botanical Society invites applications for an Award of up to \$2,600 to encourage and assist applicants to increase knowledge of New Zealand's indigenous flora, and to commemorate the Society's Jubilee in 1989. Please see details later in this newsletter.

6 October. Wellington Botanical Society Grant to Graduate Students – Applications sought. Please see details later in this newsletter.

Subscriptions

Subscriptions for the 2022–2023 financial year are now due. Please find enclosed a renewal notice. Note: we have already received some advanced payments this year, so if you are unsure whether you have paid please contact: wellingtonbot-socmembership@gmail.com; or phone 022 41135194.

Helen White, Membership Secretary

Submissions called for

- Notification of Wellington City's Proposed District Plan. **Submissions due 5 p.m.** Monday 12 September. wcc.nz/pdp or district.plan@wcc.govt.nz or 04 4654654

BotSoc first-aid kit missing

If you went on our summer camp trip based at Aongatete Camp, Bay of Plenty, please check your car's boot and under the seats and your pack/luggage for our first-aid kit. Kate Jordan who made it for us describes it thus:

- cream canvas with pink abstract designs. It is ca. 20 × 20 × 15 cm with the zip on three sides of the lid.

The committee

New members

We are keen to welcome more people to the delights of botany via BotSoc. If you know someone who might enjoy our field trips, newsletters, bulletin and informative meetings, please encourage them to join. Give them our web site address, then tell them that there is a membership application form at the back of our newsletter.

Helen White, Membership Secretary

FIELD TRIPS & EVENING MEETINGS

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.

Non-members are welcome to come to our meetings and to join us on our field trips.

SEPTEMBER – DECEMBER 2022; JANUARY 2023

Monday 19 September: Evening meeting

Small plants that are everywhere: mosses, liverworts and lichens

Speaker: Leon Perrie, Botany curator at WELT herbarium, Museum of New Zealand Te Papa Tongarewa; fern specialist. New Zealand is the world's hotspot for liverworts, with over 600 species and a comparatively high number of isolated evolutionary lineages. We've got lots of mosses and lichens too, with some 500 and 2000 species, respectively. Because they are small, this rich diversity is easily overlooked and often not appreciated. Nevertheless, mosses, liverworts and lichens are significant components of many ecosystems. They can be important in succession, habitat provision, geochemical cycling and in hydrology. This talk will introduce these three groups and outline how they differ from each other and from other plants. We'll also cover tips for spotting them in the field.

Saturday 1 October: Field trip

Tuapaka/Hutton's Covenant, Te Horo

Jim Matheson and Sarah MacLean own Tuapaka/Hutton's Covenant in Te Horo—9 ha of lowland forest on a steep slope above the Ōtaki floodplain. The site has had possum and rat control for the past twenty years and has been regenerating very well. Please be aware that the covenant is primarily to protect the Nationally Critical snail species *Powelliphanta traversi otakia*, which exists in only one other known site. There are several tracks in the bush—we will stay on them to reduce the risk of trampling snails. **Meet:** 9.45 a.m. Waikanae Station, north-end car park. **Car pool**—then travel in convoy to site. **Train:** 8.14 a.m. Kāpiti Line train WN to Waikanae. **Leaders:** Eleanor Burton 021 0588 324 / esmeraldadoris93@gmail.com. Kate Jordan 027 899 0018 / kateljordan@gmail.com.

Monday 17 October: Evening meeting

Once in a lifetime: why is recruitment so rare in Canterbury braided river floodplains?

Speaker: Debra Wotton, Director & Principal Ecologist, Moa's Ark Research. Braided riverbeds are globally rare ecosystems. In New Zealand, they are under threat from habitat loss, water extraction, flood-control measures, pests and weeds, and are classified as Endangered. These dynamic ecosystems are sparsely vegetated, but contain a surprising number of threatened plant species. One of these is the Critically Endangered dry plains shrub daisy, *Olearia adenocarpa*, found only in Canterbury braided river floodplains. *O. adenocarpa* is failing to recruit, as are many other native plants in dryland ecosystems. Debra has been investigating the causes of this widespread recruitment failure. She will present research on whether habitat manipulation can promote regeneration and population persistence in *O. adenocarpa* and two common plant species also failing to recruit, then discuss why recruitment is so rare in braided river floodplains.

Saturday 12 November: Field trip

Botanical foray of saline wetlands, eastern Wairarapa

NOTE SECOND SATURDAY

Access: via Craigie Lea forest by 4WD vehicles only. A maximum of five vehicles will be used, a total of 20 seats. Please tell Owen if you can take a 4WD. **Meet:** 9.30 a.m. in the layby 50m north of junction of TeWhiti and Admiral roads, Gladstone, south-east of Carterton. We will travel in convoy from Gladstone along Tupurupuru-Te Wharau (Flat Point) Rd to Te Wharau along East Coast Rd, and then onto Craigie-Lea Rd. It is then 5 minutes along Craigie-Lea Rd before proceeding along 4wd farm and then forestry roads. The 4 km forestry road is difficult if very wet, but under normal conditions is okay for most 4WD vehicles with good clearance and tyres with good tread. Bring a hi-viz vest if you have one, and if you do not, please tell Owen. The wetland is small and surrounded by rank pasture, and pine plantation, with regenerating scrub within a deer fence. There is beech forest nearby which we will survey if time permits. There is no cell-phone coverage at the wetland, but some coverage on nearby high points. The site is at c. 500 m elevation and cool to cold, so bring sturdy boots with ankle support, warm clothes, hat, gloves, leggings, parka. Also bring a warm drink, plenty of snacks and lunch. If you have access to a 4WD, are a 4WD-trained driver and would like to help ferry people to the site, please tell Owen. We will leave the site at 3–3.30 p.m. in convoy to the sealed road, for safety reasons. **Map:** NZTopo50-BP34 Te Wharau. **Leader:** Owen ph 027 285 8083 or email: Owen.Spearpoint@gw.govt.nz

Saturday 19 November: Field Trip

Te Mārua Bush workbee, Upper Hutt

In partnership with Greater Wellington, BotSoc has been committed since 1989 to do weed control and revegetation in this important matai/tōtara/black 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 weeding gear: gloves, kneeler, weed bag, and your favourite weeding tools, e.g., trowel, hand fork, grubber, loppers, pruning saw, jemmy. There may be some planting as well. **Meet:** 9.30 a.m. at Te Mārua Bush. (250 m north of Te Mārua Store and then left off SH2 for 50 m, on Twin Lakes Rd, Kaitoke Reg. Pk. **Train:** 8.05 a.m. Hutt line train WN to Upper Hutt—ring the leader to arrange to be met at Upper Hutt Station. **Maps:** NZTopo50-BP32 Paraparaumu; street map. **Co-leaders:** Glennis Sheppard 526 7450, Sue Millar 526 7440.

Monday 21 November: Evening meeting

The vegetation and flora of the Catlins

Speaker: Brian Rance, Technical Advisor - Flora/Ecology, Terrestrial Science Unit, DOC, based in Invercargill. Brian will provide an overview of the Catlins flora, concentrating on the rare and the notable flora and will describe some recent discoveries. He will cover the major vegetation types found and some of their special features and management needs. He will also cover some of the sites we are likely to visit on Wellington BotSoc's visit to the Catlins in January.

Saturday 3 December:

Rātā walk, Lower Hutt

A casual 4.5 km morning stroll through Lower Hutt viewing the flowering rātā (*Metrosideros* spp.) and other impressive native trees in the streets and gardens. Walk will begin and end at railway stations so public transport use is encouraged. The walk may also be held as an after-work event on 30 November and 1 December. Check the Wild Plants of Wellington Facebook page nearer the time.

Meet: Oxford Terrace side of Waterloo Station, 9.30am. **Train:** 9.05 a.m. Hutt Valley Line Wellington to Waterloo. **Leader:** Kate Jordan, ph 027 899 0018, e-mail kateljordan@gmail.com

21–28 January 2022: Summer Camp

Catlins

Catlins has a wide variety of ecosystems from coastal and estuary areas to alpine areas. Highlights include the petrified forest of Curio Bay and old podocarp forest of McLean Falls. Read the recent write-up on the Tautuku catchment, by Brian Rance and John Barkla <https://tinyurl.com/f5xas9vm>.

Possible field trips: Curio Bay (petrified forest), Waipapa (coastal turf), Lake Wilkie & Lenz Reserve, Catlins River Track (subalpine), Cannibal and Surat Bay (sand dunes), Papatowhai (estuary) and MacLean Falls (old forest).

Base camp: Tautuku Outdoor Education Centre, Catlins <https://www.aongateteoec.co.nz/https://www.youthadventure.org.nz/camps/tautuku> **Breakfasts & lunches:** prepared by BotSoccers on a roster system. **Dinners and desserts:** catered. Vegetarians, dairy-free and vegan catered for—if you have other special dietary needs, please make your own arrangements.

Accommodation: bunk-rooms: \$36/person/night; camping: \$36/person/night (no fires).

Transport: Participants to arrange their own transport to and from camp. Transport will be available from Dunedin Airport—please indicate if you need this on the registration form.

Booking: Booking ESSENTIAL. Book early! Preference will be given to members of Wellington BotSoc. Please either download the registration form <http://www.wellingtonbotsoc.org.nz/images/2022-Summer-camp-registration.pdf> here for pdf version, or <http://www.wellingtonbotsoc.org.nz/images/2022-Summer-camp-registration.docx> here for doc version, or print the registration form in this newsletter. Please email your completed form to botsocsummercamp@gmail.com by **25 November**. **Deposit:** \$550.00 per person to be paid at time of registration by internet banking. At the end of the trip, depending on the final cost, you will be sent an invoice (or a refund) for the full cost less your original payment. **Maps:** NZTopo50: CG13 Clinton, CG14 Owaka, CG15 Nugget Point, CH12 Waipapa Point, CH13 Curio Bay. **Contact:** Email: botsocsummercamp@gmail.com

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

PUBLICATIONS

- 1a. Te Mana O Te Taiao – NZ Biodiversity Strategy Implementation Plan launched.**
- 1b. What's Up DOC. Monthly e-news bulletin.**
- www.doc.govt.nz
- 2. Biography of (A P) Tony Druce:** Dictionary of New Zealand Biography website:
- <https://teara.govt.nz/en/biographies/6d8/druce-anthony-peter>
- 3. A P (Tony) Druce's species lists:** https://www.nzpcn.org.nz/publications/documents/?publication_author=Druce Use the location to refine the search. Te Papa has the hard-copies of the lists. They can also be accessed on the NZPCN website via [their map search](#) which returns a spreadsheet rather than a scan of the original list. (Per Dr Leon Perrie, Te Papa Tongarewa).
- 4. Life in the Shallows – the wetlands of Aotearoa/NZ:** Karen Denyer & Monica Peters. 344 p, 240 mm x 168 mm, Flexibind, illustrated. Published by NZ Wetlands Trust. If you purchase the book through the trust, the trust's work on wetlands will benefit. Massey University Press.
- editor@masseypress.ac.nz
- 5. Wellington Gardens Bird Watcher's Guide. Brochure, A3, colour, illustrated.**
- [Wellington City Council](#).
- 6a. Auckland Botanical Society. Journal 77(1) June 2022:**
- https://drive.google.com/file/d/1IP-hUGfChZR5uoqRya6KGbktrhP1KJ_m/view?usp=sharing
- 6b. ABS Newsheet 9/22:** AK Council Notable Tree Schedule; publishing botanical events on NZBotSoc Facebook site: etc.
- aucklandbotanicalsociety@gmail.com
- 7. Canterbury Botanical Society. 8/22:** meetings; trip reports; Spring Camp: 10–13/11, Glenroy Lodge Church Camp; Rakaia Gorge area, incl. Rockwood Ra; seed bank survey, etc.
- info@canterburybotanicalsociety.org.nz
- 8a. Trilepidea 217 4/22:** *Corybas carsei* research, *Juncus distegus*, *Prasophyllum hectorii*, EcoNet Weed App. PDF 1.1 MB.
- 8b. Trilepidea 218 5.22:** *Pachycladon fasciarium*, Kopu Bridge planting, *Pterostylis cardiostigma*. File size: 3.8 MB.
- 8c. Trilepidea 219 6.22:** *Olearia hectorii*, weedy purple tops, mid-Tautuku catchment flora. PDF 4 MB.
- 8d. Trilepidea 220 7.22:** Dwarf mistletoes, new woollyhead (*Craspedia*) species, small-leaved *Hydrocotyle* species. PDF 4.1 MB.
- 8e. Trilepidea 221 8.22:** LIDAR on iPhones, *Gingidia flabellata*, Tutaki West headwaters, new *Myosotis brevis* colony in Wellington region. PDF 3.3 MB.
- Please tell us of any plant conservation news and events—have you found a threatened plant? Are you undertaking a restoration project? Do you have plant stories, talks, planting days, field trips, etc. which you would like promoted nationwide. E-mail details to: info@nzpcn.org.nz.
- https://www.nzpcn.org.nz/publications/documents/?publication_type=6148
- 9. Friends of Tawa Bush Reserves. Brochure, A4, colour, illustrated.**
- <https://tawabush.org.nz> secretary@tawabush.org.nz
- 10a. Forest & Bird 384—Winter 2022:** Nicola Toki – new Chief Executive; Te Mana O Te Taiao – NZ Biodiversity Strategy Implementation Plan launched; Environment Aotearoa 2022 report published; two wetland fires; NZ's emissions reduction plan; regenerative farming; F&B works with Birdlife International; managing rivers; "Review of the future of local government"; *Chaerophyllum* sp. 'Livingstone' discovered in an alpine zone in Otago; scallop fisheries in bad state; Eco Church; drinking water standards; former Chief Executive Kevin Hague recalls his 5 years in role; marine heat-waves; translocating whiteheads; F&B engaging with Māori over time; how plants get pollinated; godwits face habitat loss; freshwater mussels / kākahi; little blue penguin / kororā; F&B's Chapman Reserve, Fiordland; restoration stories: Kāpiti Coast swamp – Lake Pupuke – Waitomo – Te Puna—garden birdlife; etc.
- 10b. Forest & Bird e-news. 8/22:** new CE Nicola Toki's recent activities; stopping mining on conservation land; bats/pekapeka; etc.
- www.forestandbird.org.nz
- 11. Ōtari-Wilton's Bush Trust News & Views. 6/22:** Chair Carol West's AGM report; ōtari manager Tim Park's report; Trust Board annual report 2021–22; Trust Board members; glow-worm walks; Wellington coastal garden planted; *Weinmannia sylvicola* syn. *Pterophylla sylvicola* drawing. Subscription single \$20, double \$30.
- www.owbt.nz
- 12. Citizen Science Association of Aotearoa / NZ:** c/o University of Canterbury, PO Box 4800, Christchurch 8140.
- citsci.nz@gmail.com
- 13. Predator Free NZ Trust.**
- www.predatorfree.nz contact@predatorfree.org
- 14. Risk Analysis: Euphorbia paralias – sea spurge [PDF, 758 KB]**

See article in this newsletter.

Jubilee Award 2022 – Applications sought

The Wellington Botanical Society invites applications for an Award of up to \$2,600 to encourage and assist applicants to increase knowledge of New Zealand's indigenous flora, and to commemorate the Society's Jubilee in 1989.

Purpose of the award

The Award is open to anyone working in New Zealand. It will be granted for: fieldwork; artistic endeavour; publication; research; propagation or cultivation of NZ native plants for educational purposes and/or other studies which promote the better understanding of NZ's 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 NZ's indigenous 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 6143, or by e-mail to: esmeraldadoris93@gmail.com, by **6 October 2022**.

There is no prescribed application form, but the following must be provided:

1. the applicant's name,
2. postal address, telephone number and e-mail address.
3. any relevant position held
4. a summary statement of the applicant's accomplishments in the field of botany – no more than one page
5. an outline and timetable for the proposed project for which the Award is sought
6. 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 6 October 2022.

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 the 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.

Wellington Botanical Society Grant to Graduate Students – Applications sought

Each year the Wellington Botanical Society provides small grants to assist post graduate student in the VUW School of Biological Sciences.

These grants can be used for travel, materials and other costs related to research projects undertaken as part of the course of study. Grants to any one student will normally be not more than \$1200.

Application should be made initially through your supervisor to Nicola Nelson by **6 September 2022**.

Applications should be brief and to the point. (Say two A4 pages).

They should state:

- Your name and email address
- Your current education qualifications.
- The course of study being undertaken.
- The nature and aim of the research project.
- The name of your supervisor for this project
- The budget for this project.
- The expenses that the grant is proposed to cover.

You will be advised of the results of your application by 6 October 2022.

Grants will be made through the Research Trust of Victoria University of Wellington.

Names of successful applicants will be published in the Society's newsletter.

It is condition of the grant that you make a short presentation to the Society on your project and/ or provide a one page summary on the nature and results from the project to be included in the Society's newsletter or bulletin.

The small print.

1. Grants will normally be to post graduate students. Consideration may be given to applications by undergraduates where the supervisor considers that there is a special case to be made because the nature of the project is similar to that undertaken by graduate students.
2. Priority will be given to projects involving native New Zealand vascular plants and cryptogams. Consideration may be given to those projects involving other vegetation. With the anticipated competition and limited funds it is unlikely that applications for projects involving algae, fungi and coral would be successful.
3. The primary purpose of the grant is to cover field expenses – transport and accommodation but not rations. Financial assistance towards the cost of chemicals and chemical and DNA analysis will be

entertained. The Society is reluctant to fund capital items but will consider applications for these.

4. Applications for grants made after the closing date may be entertained if the Society has not already allocated the funds available for the Student Grant. Priority will be given to applications received before the close off date.
5. The funds available are limited and priority will be given to those applications and those expenditures that agree with the main criteria set out above and are most in line with the aims of the Wellington Botanical Society.

President's report to the 83rd Annual General Meeting of the Wellington Botanical Society, 15.8.2022.

This AGM ends my five years as President. It's been a great privilege and has opened many doors for me—I have really appreciated the opportunity.

This last year has again been marred by Covid interrupting our meetings and trips. Once again the use of Zoom software has allowed us to conduct meetings online (February, March, April) as well as adding handsomely to our physical meetings' numbers. Indeed, our March speaker, Lara Shepherd, attracted a record of 91 viewers, all on Zoom with her presentation of the genus *Phormium*.

Recently we've started a mentor programme for field trips. Participants who are newish to botany can be shown some basic plant groups and plants they may be more familiar with. There has been some very positive feedback about this initiative.

I want to sincerely thank the committee for another successful year.

Some people have been doing their current roles for many years. It's a big investment of time and effort that needs to be acknowledged.

Job Descriptions

This year the committee have all written job descriptions, which has more accurately defined our roles and let the other members know what we do.

Outgoing Committee

Jon Terry	President
Kate Jordan	Secretary, Zoom Organiser
Chris Moore	Treasurer
Sunita Singh	Vice-President, Programme Organiser
Owen Spearpoint	Vice-President
Chris Horne	Newsletter
Eleanor Burton	Bulletin editor
Helen White	Membership Secretary, Zoom Organiser
Julia Stace	Committee, Summer Camp
Richard Herbert	Website
Frances Forsyth	Minutes of committee meetings
Jane Humble	Accounts Reviewer

Kate Jordan, our Secretary, has had a busy year. As well as keeping the committee on our toes, she is also a Zoom Organiser. She is standing down after 3 years of outstanding service.

Chris Moore is standing down after his second year as Treasurer. He has very capably streamlined our accounts and kept us financial.

Sunita Singh is the Programme Organiser and a Vice-President. As usual, she has put together a great set of talks and trips this year. Thanks also to all of our speakers for the huge effort they put into preparing and delivering presentations.

Chris Horne is the Newsletter editor. Thanks so much to Chris for collecting articles from people, and along with Jeremy Rolfe, formatting and producing the newsletter.

Eleanor Burton is our Bulletin Editor. She has three articles collected for the next one. Please think about writing an article for the Bulletin—details are in the Newsletter. She also provides plants for sale during our monthly meetings.

Helen White is our Membership Secretary, keeping track of membership and newsletter and bulletin distribution. She is also a Zoom Organiser for our monthly meetings.

Julia Stace has primarily been involved with the Summer Camp for several years. This is a massive job that thankfully was run by a sub-committee last summer.

Richard Herbert is very knowledgeable about Society matters, and how committees work in general. He also administers our website, which required some speedy updates when trips got postponed due to Covid.

Frances Forsyth has been recording the minutes of our committee meetings. She has a great depth of knowledge about BotSoc affairs.

Jane Humble has been reviewing our accounts for several years. She is standing down at this AGM.

Continued thanks to Leon Perrie and Julia White for administering the Wild Plants of Wellington Facebook group. Membership has grown to 804. It's a great way to advertise our trips, display photos after them and attract younger members.

Trips 2021–2022

Finding new sites for us to explore is always a challenge. If you know of any out-of-the-way sites with interesting botany, particularly those with friendly landowners, please contact our Programme Organiser, Sunita Singh.

We are always keen to find new people to lead trips—if you would like to volunteer please talk to Sunita and we can pair you up with an experienced trip leader.

September 2021	Postponed
2–3 October 2021	Saturday: Duntulm farm, Mangatarere valley, Carterton. Overnight stay. Sunday: Ocean beach, Wairarapa South Coast
6 November 2021.	Wetland on terrace above Ōtaki River, Ōtaki Gorge. Helen White, Owen Spearpoint.
Summer Camp 22–29 January 2022	Bay of Plenty. Julia Stace, Kate Jordan. Aongatete Camp, Katikati was a great success despite Covid hanging over the event. Local guides Gael Donaghy & Graeme Jane presented six days of field trips, with much diversity.
February, March, April	field trips postponed.
7 May:	Forest Loop Walk, Whareroa Farm Reserve, Kāpiti Coast.
18 June:	Te Mārua Bush workbee.
2 July	Whakanui Track, Wainuiomata. Leon Perrie and Lara Shepherd
6 August:	Katherine Mansfield Drive, Mangaroa, Upper Hutt. Leon Perrie

Meetings

2021

- 16.8 A.G.M. **Bev Clarkson**, Manaaki Whenua Research: Species & environmental features of peat bogs. 36+44 Zoom = **80**
- 20.9 **Kate McAlpine**, DOC: Native plant succession in woody weed stands in NZ. Zoom **89**
- 18.10 **Colan Balkwill & Joe Dillon**, Victoria University: Colan: Genetic diversity = variation in DNA sequence within a species. Joe: A hungry botanist's journey. 39+ ~30 Zoom = **69**
- 16.11 **Gael Donaghy & Graeme Jane**: Bay of Plenty plants. 21+38 Zoom = **59**

2022

- 21.2 **Rob Allan**: To plant or not to plant in forest restoration? **85** Zoom
- 21.3 **Lara Shepherd**: *Phormium tenax* & *P. cookianum*. **91** Zoom
- 19.4 **Sarah Herbert**: Is habitat enhancement a viable strategy for lizard conservation in NZ? **71** Zoom
- 16.5 Members' Evening. 25 + 10 Zoom = **35**
- 20.6 **Prof. Peter de Lange**: Rekohu – updating what we know of the flora & lichenised micobyota of the Misty Islands. 50 + 40 Zoom = **90**
- 22.7 Matt Ward: Seeds, Survey and Sweet Finds. 26 + 45 Zoom = **71**

2022/2023 committee

At the 83rd Annual General Meeting, held in person and by Zoom on Monday 15 August 2022, the following were elected:

President	Frances Forsyth	384 8891
Vice-presidents	Owen Spearpoint	562 8780
	Sunita Singh	387 9955
Secretary	Laura West	wellingtonbotsoc-secretary@gmail.com
Treasurer	Vacant – volunteer sought	wellingtonbotsoc-treasurer@gmail.com
Membership secretary	Helen White	wellingtonbotsoc-membership@gmail.com
Accounts reviewer	Vacant – volunteer sought	
Committee	Paul Bell-Butler	paul.bellbutler@vuw.ac.nz
	Eleanor Burton	479 0497
	Richard Herbert	232 6828
	Chris Horne	475 7025
	Julia Stace	385 4606

Seeking additional committee members

If you have enjoyed attending evening meetings, field trips and summer trips please think about joining the team that makes them happen. People can be co-opted onto the committee at any time which makes this a good way to find out if you would like to take on a more permanent position. Meetings are held about once every six weeks on a Wednesday evening at 7pm in the Ōtari Information Centre.

If you think you might enjoy helping with the running of BotSoc please contact our secretary, Laura West, at wellingtonbotsocsecretary@gmail.com.

Wellington Botanical Society

REVISED Balance Sheet for June for 2021/2022 Financial Year

Prepared by Chris Moore, Treasurer

General Account

20/21	Expenditure	21/22	20/21	Income	21/22
969	Printing	644	2,325	Ordinary subscription	3,380
1,107	Postage & Stationery	254	705	Country subscription	805
628	Meetings & Admin	809	10	Student subscription	60
60	Subscriptions to other organisations	233	987	Group subscription	1,280
1,522	Assets converted to consumables	0	4,027	Total Subscriptions	5,525
0	Transfer to Student Award Fund	0	5,120	Miscellaneous	160
6,076	Surplus on General Account to date	4784	1,217	Interest on investment	1,038
10,364		6,723	10,364		6,723

Jubilee Award Fund

20/21	Expenditure	21/22	20/21	Income	21/22
0	Science Fair Award	0	77,391	Opening Balance	81,063
0	Jubilee Award	2,600	1,543	Donations	2,857
			207	Book and Plant sales	552
81,063	Closing Balance for the year	83,393	1,921	Interest on Investment	1,521
81,063		85,993	81,063		85,993

Tom Moss Student Award in Bryology

20/21	Expenditure	21/22	20/21	Income	21/22
0	Student Award	0	11,086	Opening Balance	11,361
			0	Donations	0
11,361	Closing Balance for the year	11,574	275	Interest on Investment	213
11,361		11,574	11,361		11,574

John Child Workshop Contingency Fund

20/21	Expenditure	21/22	20/21	Income	21/22
	Payout	0	5927	Opening balance	6,069
6,069	Closing Balance for the year	6,183	142	Interest to date	114
6,069		6,183	6,069		6,183

Student Field Grant

20/21	Expenditure	21/22	20/21	Income	21/22
800	Grants to Students	0	11,137	Opening Balance	10,616
			279	Interest on Investment	199
10,616	Closing Balance for the year	10,815	0	Transfer from General Account	0
11,416		10,815	11,416		10,815

Provision for Bulletin

20/21	Expenditure	21/22	20/21	Income	21/22
0	Printing Bulletin	2,038	11,094	Opening Balance	11,131
0	Distribution costs	0	37	Sale of bulletins	
11,131	Closing Balance for the year	9,093	0	Transfer from General Account	0
11,131		11,131	11,131		11,131

Balance Sheet as at 30 June 2022

20/21	Liabilities	21/22	20/21	Assets	21/22
2,010	Life Membership Fund deleted	0	15,832	BNZ Current Account	18,355
81,063	Jubilee Award Fund	83,393	12,698	BNZ on call 098 Account	12,707
11,361	Tom Moss Student Award in Bryology	11,574		Bank Funds available	31,063
10,616	Student Field Grant Fund	10,815		Undeposited cash	0
6,069	John Child Workshop Contingency Fund	6,183	10	Petty cash	10
11,131	Provision for Bulletins	9,093	24	Camping Equipment	-
0	Funds to be transferred	0	50	Display unit	-
55,332	Accumulated fund at 30.06.21	55,332			
	Life Mem Fund added to Accum Fund	2,010	97,590	BNZ Term Deposits	99,322
	Surplus on General Account	4,784	51,378	Westpac Term Deposits	52,715
	Less asset writeoffs	-74			
	Accumulated fund at 30.06.22	62,052		Total	152,038
\$177,582		\$183,110	\$177,582		\$183,110

The society's 02 Summer Camp account is not listed above as it is overseen separately by the Summer Camp leader and the Treasurer.

I have examined the ^{revised} accounting records of the Wellington Botanical Society Inc. and have received all the explanations requested. I believe the accounts and balance sheet to be a true and fair record of the Society's operation and its financial position at the close of the financial year.

Auditor: J. Humble

Date: 20/8/2022

Urgently seeking a Treasurer

Wellington BotSoc is looking for a new treasurer following the retirement of Chris Moore who is moving away from Wellington. We need a volunteer who can move into the position as soon as possible so they can learn the job from Chris who has agreed to carry on until 30 November. To find out more about the role and how much work is involved please email Chris at wellingtonbotsocreasurer@gmail.com

Tāne's Tree Trust

The trust's conference will be at Te Papa Tongarewa on 27-28 October. The group aims to highlight the need for Aotearoa to complement its existing productive land uses by weaving more native forest back into our working lands. Research shows that this will produce many benefits including biodiversity enhancement, erosion control, water quality, carbon sequestration, adaptation to climate change, cultural values, and high-value timber and non-timber forest products.

There are roles for different species of trees and types of forest in Aotearoa – as part of wise, sustainable land use. The conference will focus on native trees and diverse forests.

You will be welcomed as someone with common interests in this subject, to support *O Tātou Ngāhere: Regenerating our landscapes with native forests ...* we encourage you to attend and participate.

Get tickets and learn more about the programme and speakers at: www.otatoungahereconference.org.nz.

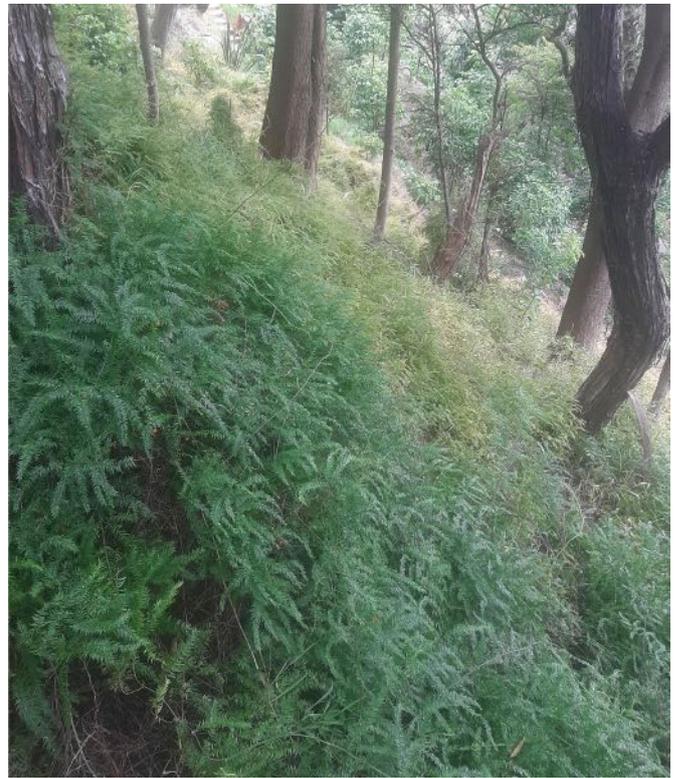
Andrew McEwen

Hutt City weed control and deer update

This report describes work on weed control done by Downers' staff on contract to Hutt City Council (HCC). It also comments on deer control in the Hutt Valley.

Staff spend about half of each year controlling weeds in HCC's area. We target mainly old man's beard, banana passionfruit, cathedral bells, pampas and climbing asparagus. We also have a small budget for site-led sites where we target a much wider range of pest species, e.g., elaeagnus, tradescantia, Japanese honeysuckle, etc. The weed that concerns me most is climbing asparagus as it's spreading rapidly through the Hutt Valley. It's now recently arrived in Stokes Valley and Wainuiomata, as well as virtually anywhere that borders on bush areas from Eastbourne around to Naenae and all the western hills from Korokoro to past Kelson. We have a small budget for it but frankly it's too far out of control in most areas. We're now concentrating on keeping it out of important areas of biodiversity such as Hayward Scenic Reserve which features rimu, northern rātā, white maire, etc. We've had some success in controlling it on a smaller scale but it needs continual monitoring as birds spread it far and wide.

The site-led initiative that HCC has funded is a great idea as there are some still significant areas of forest in the Hutt Valley region that need help to keep weed species under control such as Hayward Scenic Reserve and the bush around the Barberry Grove-Sugarloaf area as examples. We have been planting missing species that are ecosourced locally, e.g., kahikatea, rimu and matai to enhance these areas.



Climbing asparagus before (top) and after clearance.

We look after all HCC's tracks. This means that we know what's affecting indigenous biodiversity in our region and what the pest-plant and pest-animal impacts are. You may be aware of the deer problem and I'm afraid it's not diminishing. HCC doubled its budget and I'm unsure how many deer were killed in the recent cull but from my own and others' observations it hasn't had much effect. GWRC of course also have a culling programme but both these programmes need increased budgets if we want to keep on top of the infestation and eventually drastically reduce it.

At the recent DOC Local Threatened Species meeting I attended there was a common theme. Most of these species are in decline because of deer browse and poor seedling recruitment. Until we can arrest both of these impacts we will lose more species.

Along Petone Foreshore one initiative I'm part of is planting either locally threatened or regionally extinct species e.g., *Lepidium oleraceum*, *Atriplex cinerea*, *Sonchus kirkii*, *Melicytus orarius*, *Chionochloa beddiei*, etc.

There are many brilliant things happening in Lower Hutt – e.g., planting around Ōruapouanui / Baring Head and by the many community groups. We must keep up the good work.

John Van den Hoeven, Downers

Greater Wellington Regional Council

Pest Plant Updates

This will update you on the control of some of our RPMP species as our field work focuses on them in winter. We're busy completing annual inspections of known sites, and surveying (or 'delimiting') recently discovered sites within a 200-metre buffer. We monitor sites until no plants have been found for nine consecutive years, then it is classed as eradicated.

We have 160 moth plant (*Araujia hortorum*) sites across the region, and in the last year controlled 43 adult vines, and 1,383 juveniles. Most of these have been from existing sites, but we were recently alerted by the public to new sites in Belmont and Melling. Over a hundred seed pods were collected at the Melling site.

We have 143 woolly nightshade (*Solanum mauritianum*) sites, and controlled 44 adults, and 451 juveniles this past season. Our most recently controlled sites have been down Coast Road, Wainuiomata and in Woburn. Adult plants were cut with a chainsaw, and ripening berries collected for disposal.

Senegal tea (*Gymnocoronis spilanthoides*) is a very fast-growing semi-aquatic herb with only 18 known sites in our region, all on the Kāpiti coast. In past years plants have been sprayed, but our last round of control was all done by digging out plants. We hope to see good results from this when we return there in November. Due to how fast growing this species is, and the risk of it spreading by fragments through waterways, sites are controlled twice annually.



Senegal tea starting to cover a stream.

We are a small team operating throughout the region. We rely on reports of pest plants for our programmes' success. If you spot any of the weeds listed below, or have general pest-plant queries please contact: pest.plants@gw.govt.nz

- Alligator weed (*Alternanthera philoxeroides*),
- Chilean needle grass (*Nassella neesiana*)
- nassella tussock (*Nassella trichotoma*)
- moth plant (*Araujia hortorum*)
- Senegal tea (*Gymnocoronis spilanthoides*)
- spartina (*Spartina anglica*, *S. alterniflora*)
- velvetleaf (*Abutilon theophrasti*)
- woolly nightshade (*Solanum mauritianum*)
- purple loosestrife (*Lythrum salicaria*)
- blue passionflower (*Passiflora caerulea*)
- eelgrass (*Vallisneria spiralis*, *V. gigantea*).

Sea spurge *Euphorbia paralias* update

As you may recall from Roger Uys's talk to BotSoc on dunelands last year, sea spurge (*Euphorbia paralias*) has been discovered in our region. The two closely linked sites in Paraparaumu were first noted by Matt Ward during duneland surveys. MPI were notified, our staff assisted them in collecting specimens for herbaria and spatial data.

A management plan specific to the site was prepared, and after initial removal of the plants we have been returning to the site every four months, consistent with the national approach. To date 683 plants have been removed.

Please look out for sea spurge when you're on the coast, and if you find any plants notify the pest and disease hotline 0800 80 99 66.

Pest Animal Updates

Wallaby eradication Kaitoke

Wallabies are an exclusion species in our RPMP, and the unexpected wallaby work in Kaitoke this year has taken up considerable staff time. In total 5 wallabies have been killed



A Senegal tea fragment developing new roots.

Taputeranga Marine Reserve
For any Conservation-related illegal activity,
call the 24-hour conservation emergency helpline

DOC HOTline
0800 362 468
For Search & Rescue—call 111

All other enquiries to your local DOC office or visit our
website www.govt.nz

 Department of Conservation
Te Papa Atawhai

New Zealand Government

Newsletter by e-mail?

When we did the ring-around for the Level 4 Zoom meeting, some people hadn't realised that they could receive the newsletter by e-mail. This is an option.

If you would like to receive your newsletter electronically, please contact Memberships Secretary, Helen White: helenamywhite@gmail.com

Ngā mihi,
Kate Jordan, Secretary

and several other sightings followed up. No further wallabies have been detected and the wallaby-detection dog has not indicated any further presence at the site or at the other sighting areas. We will continue to monitor for any new sign.

Goat control

DOC led the Remutaka Hill Road goat control operation which was completed after four mornings of road closures. 345 goats were shot in the operational area by ground crew and aerial shooting. Biosecurity, Parks and Comms staff were all involved with road closure, track checking and sentry duties, as well as cleaning up any goats afterwards.

Hutt and Kaitoke 1080 aerial operations

Pre-feed, and aerial 1080 operations took place in May. During the day we controlled 8,555 hectares but due to low cloud could not finish the operation. The 2,400 hectares still to treat is all within the Hutt Water Collection Area which we intend to complete in September.

Floods experienced from 31 May – 10 June resulted in several river and beach checks for 1080 carcasses, in addition to the required signage and track checks. A number of 1080 identified possum carcasses were retrieved. Over 300 signs were installed along streams that flow from the Hutt-Kaitoke operational area to warn the public.

Three bait and carcasse monitoring sites have been set up. By 27 June 415mm of rain had fallen and the 1080 baits were no longer toxic, but possum carcasses remain intact and therefore still provide a secondary poisoning risk to dogs.

*Laura West, Biosecurity Officer (Plants)
Kaiwhakahaere rerenga rauropi
M: 021 583 934*

*Greater Wellington Regional Council, Te Pane Matua Taiao
1056 Fergusson Drive, PO Box 40847, Upper Hutt 5140*

A Hinewai in Wellington

The principles of nature-led regeneration that are transforming Hinewai Reserve on Banks Peninsula are also making gains in Wellington. Long Gully Bush is a 65 ha privately owned nature reserve between Zealandia and South Karori Road. It's steep, untracked land drained by Silver Stream, clothed in native regeneration with pockets of original remnant forest. There is currently no public access to the area.



Removing goats and controlling rodents to low levels has led to prolific regeneration of nikau and hen and chicken fern.

A low-input, low-cost, no-planting approach has seen the area change from gorse to green in less than 20 years. Pest animals and pest plants are controlled by a contractor. The area is

managed by Wellington Natural Heritage Trust. Agreements with several neighbours take the managed area up to 107 ha.

The podocarps rimu and miro, 41 other tree species including kohekohe, 10 vine species, 42 fern and lycophyte species and 30 herbaceous species are present. Threatened bird species from Zealandia have colonised the bush, including tieke/saddleback, toutouwai/North Island robin, kākāriki, pōpokotea/whitehead, kākā, hihi/stitchbird, korimako/bell-bird and titipounamu/rifleman. It is hoped that this will continue as Zealandia reaches its carrying capacity for these birds.

The land was previously used for farming, including goat farming. Feral goats and possums have remained numerous in the wider area and continue to hamper the recovery of native bush on neighbouring land. Long Gully Bush was fenced to exclude goats, pigs and fallow deer in 2008, and possums and predators are intensively controlled inside the fence using bait stations and traps.

It's exciting to see the changes in the area and sustained improvement every year. With the exclusion of goats, gorse scrub is rapidly giving way to native forest. Without browsing and trampling by hooves, steep slopes are stabilising and soil is accumulating. Improved vegetation and soil retention have resulted in healthy streams. Reducing rodents and possums has allowed the seedlings of a wide range of native plants, including nikau and kohekohe, to establish and the birds are returning.



A 'lawn' of nikau seedlings. Despite the presence of large, fruiting nikau in the block, these seedlings were absent before rodent control.

The land owned by the trust and some parts owned by neighbours are protected by QEII Trust Open Space covenants. The trust hopes that demonstrating the benefits of its low-cost approach to restoration will encourage other landowners to do the same on their own properties.

The project began in 1999 when a group of prominent Wellington conservationists formed the trust and bought the original 55 ha. It was launched on-site by Sir David Bellamy.

Sustaining weed and pest animal control in the long term is critical to the project's success. This requires continuing financial support from grants and donations. The trust's website (wnht.org.nz) has more information including a management plan and links to a Givealittle page.

Sarah Wilcox and Chris Cosslett

Past and present trustees: Ray Ahipene-Mercer, Clive Anstey, Dean Baigent-Mercer, John Bishop, Hamish Carson, Chris Cosslett, Chris Horne, Rose Mary Jones, Chris Livesey, Robert Logan, Barbara Mitcalfe, Tim Park, Colin Ryder, Ed Tredidga, Maggy Wassilieff, Mark Wilcox, Sarah Wilcox, Stuart Young.

'Deer damaging Druce legacy in Hawke's Bay'

After our AGM on 15 August, Marie Taylor gave the Tony Druce Memorial Lecture on this topic.

Marie Taylor owns Plant Hawke's Bay Ltd, a wholesale revegetation nursery. She is a board member of Nursery Industry Organisation NZ Plant Producers Inc. and a trustee of The Gwavas – Puahanui Charitable Trust Board caring for a 130-ha lowland podocarp forest remnant, Tikokino.

Marie focussed on the problems deer and other browsing animals create in Hawke's Bay. Marie said that few fully functioning forests are improving in condition in Hawke's Bay, unless they are fenced to exclude deer. Deer numbers have increased to catastrophic levels in most of Hawke's Bay, impacting on long-established reserves, causing much damage to new plantings and threatening vegetation cover in the ranges. She said that many hunters are not keen to hunt deer because the animals have eaten out their forest habitats and thus most are so scrawny that they are usually not worth shooting.

Many bush remnants she worked in as a QEII National Trust rep in the 1990s and 2000s have plant lists created by BotSoccer Tony Druce, so we know what species were in the landscape in the recent past. Effective conservation is now very expensive, not only to fence remnants, but also to remove the browsers afterwards. Doing nothing is seriously hastening habitat loss.

Andrew McEwen

Barbara Beveridge 1933–2022

We are sad to report Barbara's recent death. Barbara and Peter Beveridge have held a family membership since 1996.

The BotSoc committee

Barbara Polly 1932–2022

It is with great sadness that we record the death of Barbara Polly in May this year. She was Vice-president of the Society in the late 1980s and a committee member. Barbara was an active participant in field trips during that time and will be remembered for her lichen expertise. A full obituary will be published in the WBS Bulletin.

Carol West

Percy Scenic Reserve News

During August we have been doing our winter planting, a month later than usual. We received 300 plants from Hutt City Council. Some were for filling in along the bush edges and understorey, including numerous ferns, e.g., *Blechnum novae-zelandiae* and *Asplenium bulbiferum*. We have planted about 200 more reveg plants left over from a job last year. We used them to fill in a couple of bush areas where large trees fell a couple of years ago. We hope that once they start to grow it will reduce the amount of weed control we have to do.

We have about 400 other plants which I grew from cuttings. Some plants are for the gardens around Percy Reserve, e.g., *Brachyglottis kirkii* var. *angustor*, *Carmichaelia petriei*, *Veronica bishopiana* and *Pittosporum cornifolium*. We also have several alpine plant species to plant, mostly in our rockery. These include *Veronica macaskillii*, *Carmichaelia kurta*, *Acaena caesiglauca* and *A. dumicola*. We will have planted about 1000 plants this winter - about the usual number.

We planted 100 *Lepidium oleraceum*/Cook's scurvy grass/nau around the Settlers' Museum in Petone and another 100 in various areas along Petone Foreshore. We gave 100 to Ōtari-Wilton's Bush.

We have given accession numbers to some of the alpine plants grown from cuttings and seed, some of which we collected on our seed-collecting trips, and added them to the Alpine collection. These include *Anaphalioides alpina*, *Coriaria sarmentosa*, *Acaena fissistipula* and *A. profundincisa*.

I have taken some cuttings over the winter, some of which we got from Ōtari when we delivered the *Lepidium oleraceum*, *Celmisia bellidioides*, *Olearia ilicifolia* and *Pimelea pseudolyallii* amongst these. Other cuttings we took from around Percy Reserve including the alpine collection, e.g., *Veronica armstrongii*, *Veronica rigidula* var. *rigidula* and *V. colensoi*.

Some of the seed we collected on this year's collecting trip to the Queenstown area have been germinating, notably *Aciphylla lamondii*—that's the first *Aciphylla* species of several which I have managed to germinate. Seeds of *Helichrysum parvifolium* and *Epilobium macropus* have also germinated. Several of the alpine plants have been flowering through the winter, unusually, *Ranunculus crithmifolius* × *R. insignis*, *Celmisia morgani* and *Myosotis pansa* among them.

We have been having problems with mealy bug in the glasshouses - this seems to have become a lot worse over the last few years. So I have changed from using Confidor, as I suspect it is the cause of resistance having built up in the mealy bug, because we have been it for several years. I am now using Kiwicare insect control granules. These are both contact and systemic, so should control most insect pests I have trouble with. They can be applied every three months allowing me, I hope, to keep the plants free of insect pests, even the hard-to-control pests such as mealy bug and scale.

Cliff Keilty

DOC Wellington Visitor Centre

Te Pae Manuhiri, Te Rohe
ō Te Whanganui ā Tara

Conservation House,
18–32 Manners St

- Track, hut, conservation information
- Kapiti Island visitor permits
- Hut tickets, backcountry hut passes
- Hunting permits

Open: Mon–Fri 9 a.m. – 5.00 p.m.
Sat 10 a.m. – 3.30 p.m.

Tel: 04 384 7770 Fax: 04 384 7773

E-mail: wellingtonvc@doc.govt.nz

Web: www.doc.govt.nz

New Zealand Government



Department of
Conservation
Te Papa Atawhai

Ōtari update

Well! It seemed everything was drying out and getting back to normal until the events of the weekend of Saturday 20 August, when a massive landslide occurred at Wilton Park which flowed down through the forest reserve to block Kaiwharawhara Stream and Track beneath in a 50-metre-wide swathe of soft mud that settled 2 m deep. Due to the nature and location of the material there is nothing we can do until it dries out. The Kaiwharawhara Track is closed between Ian Galloway Park and Troup Picnic Area.



A massive landslide blocked Kaiwharawhara Stream and Track.

We have had a few trees come over this winter including one large tawa in the Ponga Grove which we were lucky to get arborists in to delimb before it fell into the gardens.

We are looking forward to seeing many members and your families at the Ōtari Open Day on 17 September. There will be free tours (native plants will be available for free at the end of the tours) which will also go behind the scenes. Online booking for tours is recommended but there will be some spaces available on the day. We have a number of activities planned and talks on our native orchid conservation project, Ferns of Aotearoa, Capital Kiwi and Predator Free Wellington.

More information at: wellingtongardens.nz/events

Our team has been renovating the Native Daisy (*Asteraceae*) Garden, *Veronica (Hebe)* Garden and the Rainshadow (Inland South Island) Garden. We are doing some work to expand the Pā Harakeke at the Northern Carpark entrance also. Make sure you check them out when you visit.

We have continued to work on a number of ex situ conservation projects including notable success with hand-pollination of *Celmisia* “Mangaweka” in partnership with the team at Percy’s. I was lucky enough to be invited to collect cuttings of *Brachyglottis pentacopa* from the wild in Mataikona by Trevor Thompson. Hopefully we can help support his efforts to restore the wild population of this critically endangered species. Make sure you come to the talk at Open Day to hear Karin, Jennifer and Carlos talk about their progress with ex situ conservation of native orchids.

Please don’t forget you are welcome to collect FREE mulch for your local restoration project or home garden from the Northern Carpark on Wilton Bush Road.

See you at Open Day!

Ma te wa, Tim

QEII National Trust update

Kathryn Longstaff – Team Leader Land Protection

QEII National Trust is an independent charitable trust that partners with private landowners to protect natural and cultural heritage sites on their land. Landowners retain ownership of their property and special areas are protected with legally binding agreements called covenants, which remain on the land title forever.

As of August 2022, QEII has a total of 4,996 registered covenants protecting 181,841 hectares throughout New Zealand. There are 362 Open Space Covenants registered to protect 6,245 hectares in the Greater Wellington region. The largest registered covenant in the Greater Wellington region is 824 hectares and the average size is 36 hectares.

<https://qeii-national-trust.org.nz/>

QEII Regional Representative update

Over the years, the number of new protection enquiries and covenants across the Wellington, Kāpiti and Wairarapa region has grown.

To ensure that landowners continue to have the support they need, we created a new region which covers the Wellington, Hutt and Kāpiti area. We also welcomed a new team member to our field team to manage this new region, Rob Cross. He grew up in Wellington near Ōtari-Wilton’s Bush and has had a long career in restoration ecology, working at Zealandia, DOC, and Kāpiti Coast District Council, where he coordinated efforts to protect and restore the district’s natural heritage. Part of his role at the council was providing advice to landowners and supporting covenant establishment.

If you have any queries relating to a QEII covenant or a potential site for a covenant, please feel free to contact your local representative. The contact details for our four lower North Island reps are below, however the details for all our reps can be found on our website.

Rob Cross, Wellington and Kāpiti

Phone: 0210 238 5619

Email: RCross@qeii.org.nz

Trevor Thompson, Wairarapa

Phone: 027 333 3243

Email: TThompson@qeii.org.nz

John Williamson, Manawatū

Phone: 06 328 6851

Email: JWilliamson@qeii.org.nz

Lou Hagger, Tararua

Phone: 0224 773 833

Email: LHagger@qeii.org.nz

Letters to the Editor

We would welcome your comments on any aspect of BotSoc’s activities:

- places you would like to visit on field trips
- topics you would like to have covered in evening meetings
- topics you would like covered in BotSoc’s Bulletin and Newsletter
- other matters of concern or interest to you.

Thank you

The Committee

Members' Evening report

The 2022 Members' Evening was a roaring success. We were finally back in the university and had six interesting speakers:

- Jenny Fraser treated us to a virtual trip of the sub-Antarctic islands with her beautiful photos. Mega-herbs, bronze landscapes, and characterful seabirds all featured. Audible oohs and aahs greeted the images!



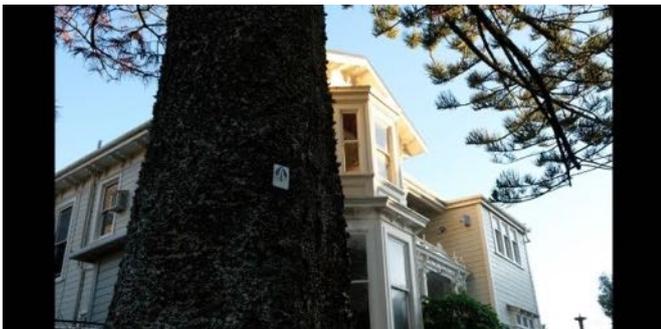
Mega-herbs in the sub-Antarctic landscape. Photo: Jenny Fraser

- Ian Goodwin presented a range of images, covering various aspects of the natural world. Many were macro and showed great detail. They included a bright yellow slime mould, werewere-kōkako/*Entoloma hochstetteri*, a massive bracket fungus, and the most inquisitive little insect.



Aciphylla aurea / taramea with snow remnants and Shotover Valley from Ben Lomond. Photo: Ian Goodwin

- Julia Stace took us on a tour of the heritage trees of Abel Smith St. She educated us on heritage and notable trees through her journey to have a copper beech/*Fagus sylvatica* added to the District Plan. (Heritage trees are recognised on a local government's district plan; notable trees are listed on the NZ Notable Tree Register).



The *Araucaria heterophylla* / Norfolk pine in front of Inverloch House, off Abel Smith St, is both a Heritage and a Notable tree. The plaque on the trunk means it is on the NZ Notable Tree Register, which says it was planted by Mr MacDonald, the original owner of Inverloch House, and is c.160 years old. Photo: Julia Stace

- Lara Shepherd reported on her and Leon's trip to the northwest Nelson area, starting off with a collection of images of a holiday botanist in his natural habitat. She presented a selection of photos of interesting plants, particularly alpine, from the Mt Arthur Tableland, 1000-Acre Plateau of the Matiri Range and the Wangapeka Track and surrounds.
- Leon followed up with some of the interesting plants from their holiday—but limited himself to the 'A's of *Aciphylla* and *Astelia*. We learnt that one of the identifying features of *Aciphylla* are the stipules—unfortunately at the base of very sharp leaves. The variety within these genera, particularly *Astelia*, was astounding.



Aciphylla colensoi on Mount Luna (Wangapeka area). Photo: Leon Perrie

- Lastly, Chris Horne connected us to our history with an account of how the BotSoc song books came about and recounted the epic jubilee trip to Northland with more than eighty people! And how all those people were fed with a long row of billies.

Every talk was interesting and entertaining – and certainly inspired future botany-related travel!

Kate Jordan

Lower Hutt Garden Circle

On 25 May, Kate Jordan gave a talk to the Lower Hutt Garden Circle on behalf of the committee. She spoke about BotSoc's activities, the history of flora in the Hutt Valley and what native plants she grows in her Waiwhetu garden. The audience were lovely and asked many questions, particularly about what native plants they could grow in tricky spots in their garden.

NZ Ecological Society Conference: *He Uru Kahika ki te Wao – Connections New Zealand*

University of Otago, Dunedin
28 November – 1 December

<https://confer.eventsair.com/nzes2022/>

The theme recognises the importance of hononga/connections: environmental connections, ecological connections and human connections.

Sub-themes include:

- Ecology in a Warming World—recognising that global environmental changes will affect local conditions.
- Predator Free and Beyond—the ecology driving Predator Free 2050 and other pest management, the complementary approaches needed, and the resulting biodiversity outcomes.
- Working Together—conservation success is possible only through nurturing the connections between individuals, communities, tangata whenua and organisations.

The theme this year comes from this whakataukī: He uru kahika ki te wao, he uru tangata ki te pā—Like a grove of kahikatea in the forest, so are the connections of the people in the

pā. Kahikatea have shallow root systems that interlocks with each other from which they provide stability and strength to each other. This is important for the tallest of our native trees. This metaphor is then transferred to people in the pā needing to have support systems in order to stay strong and healthy. There is also another level to this that incorporates a human interdependence on nature, looking to nature to provide strategies for survival.

For more information and to register: <https://confer.eventsair.com/nzes2022/>

Early bird registration deadline: 16 October 2022

Andrew McEwen

Euphorbia paralias – sea spurge

This is a long-lived herbaceous coastal plant native to North Africa, western Asia and Europe and invasive in Australia. Seeds are buoyant and can be spread very large distances by ocean currents. *Euphorbia paralias* has been reported as invading pastoral land adjacent to coastal areas in Australia, reducing pasture available for stock grazing. Additionally, the latex sap of *E. paralias* is considered poisonous and causes skin and eye irritation. Additional information at <https://www.mpi.govt.nz/biosecurity>

[mpi.govt.nz](https://www.mpi.govt.nz)

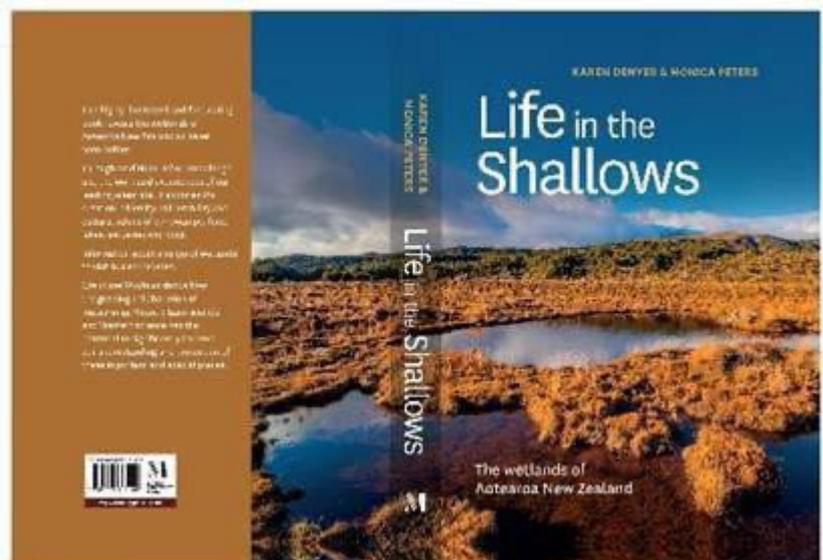
Life in the Shallows, on sale now \$65 inc. GST

P&P may apply for rural delivery. Shipping only within New Zealand.

Life in the Shallows is a fundraiser for the National Wetland Trust (<https://www.wetlandtrust.org.nz/latest-news/>) – purchase your copies directly from us and all proceeds will go to the NWT.

But it's much more than that!

- Each chapter profiles and heroes our wetland scientists – living, recent past and ancestral experts – and the wonders of the wetlands they discovered.
- There is an extensive in-depth chapter on Matauaranga Māori and the strong links between Māori and repo.
- It's easy to read, slightly quirky, and we hope it will inspire young people to consider a career in science.
- Each chapter ends with a wetland to visit, where you can experience some aspect of each scientist's work in real life.
- There's loads of stunning wetland photos (all donated by amazing and generous NZ professional and amateur photographers)



Pay by direct deposit \$65 incl. GST via ASB 12 3171 00176 60 00. Put BOOK and your NAME in the reference fields and [contact us](#) to provide your postal details.

TRIP REPORTS

3 October 2021: South Wairarapa – Corner Creek, Ocean Beach, Palliser Bay

Sunita Singh's name was inadvertently omitted in our December 2021 newsletter as a co-author of the report of the field trip which began after lunch on the lawn at her bach.

7 May 2022 Kohekohe Bush and Matai Bush, Whareroa Farm Reserve

Following our trip to Ramaroa Bush in July 2021, we returned to Whareroa Farm to explore Kohekohe Bush and Matai Bush. This trip was the first since our summer camp, which likely contributed to the large turnout, perhaps in combination with the unseasonably warm and sunny day. For many of us this trip provided the first opportunity to travel the new Transmission Gully road, and there was much discussion of the ecological impacts of the new motorway in the Whareroa carpark when we arrived.

We started the trip with a talk by members of the Whareroa Guardians group. Ann Evans gave a summary of the farm's history and Bruce Bulmer outlined the group's volunteer work, including extensive predator control and hand-mowing of 7 km of walking tracks.

Ann led us through the new, secret path that avoided the hill of the Forest Loop track into Kohekohe Bush. Once inside the forest the canopy was dominated by large kohekohe with the occasional tawa and large planted Tasmanian blackwoods on the boundary with the stream. There were several patches of the warmth-loving fern *Diplazium australe*. The undergrowth was sparse in places with *Piper excelsum* dominating, reflecting the past cattle grazing. However, patches of numerous tiny nikau seedlings demonstrate promising regeneration.

We had morning tea at the Hub, followed by an exploration of Matai Bush. There are no official tracks in this forest remnant so Ann led us along trap-lines. Kohekohe was again the dominant canopy tree, with occasional pukatea, rimu, tōtara, kahikatea and matai. Matai Bush had much denser undergrowth than Kohekohe Bush. Highlights included a particularly large and tangled kōhia vine and a massive *Pittosporum cornifolium* that, despite falling from the canopy with an epiphyte clump, looked extremely healthy.



An epiphyte clump including *Pittosporum cornifolium* had fallen to the ground in Matai Bush making for easy viewing of this typically out-of-reach species. Photo by Carol West.

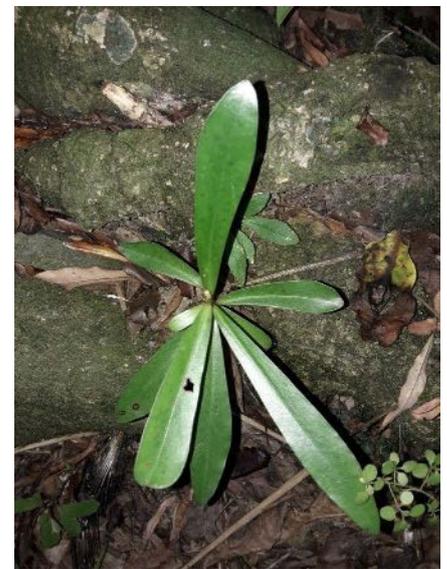


Epilobium billardiereanum in Matai Bush. Illustration: Eleanor Burton.

Following lunch by the mini hut, groups made their own way back to the car-park, either returning along the grassy track to the hub then the road, or via Matai Bush and then com-

pleting the Forest Loop track.

Thanks to Pat Enright for providing the thorough species lists. Most of our additions were weeds but notable native species added included *Passiflora tetrandra* to the Kohekohe Bush list, and *Myrsine salicina* and *Pterophylla (Weinmannia) racemosa* to the Matai Bush list.



Myrsine salicina was an addition to the Matai Bush list. Only this single seedling was seen. Photo by Lara Shepherd.

Participants: John Barnett, Paul Bell-Butler, Ellen Blake, Bruce Bulmer, Eleanor Burton, Lorraine Cook, Daniel Davis, Gavin Dench, Michele Dickson, Ann Evans, Jenny Fraser, Julia Fraser, Ken Fraser, Ollie Gibson, Richard Grasse, Chris Horne, Kate Jordan, Rachael Lockhart, Keely Paler, Viola Palmer. Mick Parsons, Stacey Pekelaar, Leon Perrie (co-leader), Jan Rowland, Lara Shepherd (co-leader/scribe), Sunita Singh, Owen Spearpoint, Julia Stace, Margaret Tolland, Shaun Thompson, Carol West, Helen White.

18 June 2022: Upper Hutt F&B/BotSoc Te Mārua Bush workbee

On a fine, cool morning for our winter workbee it was great to have so many participants with expertise. We planted two kānuka and six *Phormium cookianum* / flax infill plants on the fence lines by SH2 and Twin Lakes Rd. Inside the regenerating southern section, we planted *Pittosporum tenuifolium* / kōhūhū and *Coprosma robusta* / karamū. These replaced initial plant-

ings that had given up in the poor soil conditions left from when it was a construction site. We planted three karamū in the SE corner by SH2 and the big tōtara. We collected assorted rubbish plus weeds including tradescantia and montbretia. Laura West, Biosecurity Officer (Plants) from GWRC, will be keeping an eye on the weeds in spring. We reported a broken fence post.

Participants: Kim Broad*, Michele Dickson, Steve Edwards*, Zane Gillgren*, Chris Horne, Lynne McLellan, Sue Millar (co-leader), Ann Louise Mitcalfe, Allan Sheppard, Glennis Sheppard (co-leader, scribe), Graeme Sheppard, Laura West*.

* = GWRC staff

2 July 2022: Whakanui Track, Remutaka Forest Park

A sunny, still day enticed twenty-nine BotSocers to the back of Wainuiomata to explore the Whakanui Track. Most of the group made it up the ~400 m climb to the junction with the McKerrrow track, where they were rewarded with spectacular views across to Mt Kaukau, Rangituhi and Kāpiti Island. Some ventured further along the McKerrrow Track, where a few species not seen on the way up were noted, while others headed back down.

and 1080 drops are keeping on top of the introduced browsers. Several large trees including northern rātā, hīnau and rimu were festooned with epiphytes that provided some interesting botanising—we saw some epiphytic orchids, astelias, hanging ferns and a hanging clubmoss (*Phlegmariurus billardierei*) approaching 2 m in length. It was also interesting being in an area where kiwi (North Island brown kiwi) had been introduced (over 15 years ago)

of tutsan (*Hypericum androsaemum*) and Cretan brake (*Pteris cretica*).



Nearing our turn around point at the junction of the Whakanui and McKerrrow tracks. Photo: Lara Shepherd

Kate and Helen held an introduction to Aotearoa's plants for those starting their botanical learning, which was greatly appreciated by the beginners. BotSoc is aiming to continue to hold such sessions at the start of each trip, with a rotation of more experienced members taking turns as teacher.

Botanical highlights included a dense understorey rich in a diversity of ferns, indicating that local trapping groups

and are now thriving. Peter Cooper, of the Remutaka Conservation Trust, pointed out kiwi droppings on the track near the top junction.

The plant list compiled by Chris Hopkins was very thorough but we managed to add a few species including *Raukaua edgerleyi*, *Phlegmariurus billardierei*, *Cyathea cunninghamii*, *Hymenophyllum villosum*, *Polystichum sylvaticum* and *Hydrocotyle heteromeria*. There were also some additional weeds near the start of the track and we removed the few plants



A large northern rātā en route. Photo: John van den Hoeven

Participants: John Barnett, Paul Bell-Butler, Eleanor Burton, Peter Cooper, Gavin Dench, Katrijn de Bock, Pat Enright, Marley Ford, Jenny Fraser, Summer Gleeson, Richard Grasse, Chris Horne, Kate Jordan, Pip Kirkham, Chris Moore, Mick Parsons, Leon Perrie (co-leader), Lynne Pomare, Dave Reynolds, Beverley Scott, Lara Shepherd (co-leader, scribe), Sunita Singh, Keryn Squires, Shaun Thompson, John Van den Hoeven, Carol West, Helen White, Stephen Whitton, Sarah Wilcox.

31 July 2022: 419A Katherine Mansfield Drive, Upper Hutt

We originally planned to visit Parapaumu Scenic Reserve for this month's fieldtrip. However, Jean-Claude Stahl drew our attention to Upper Hutt City Council's plan to widen Katherine Mansfield Drive, Mangaroa Valley, so we decided to visit this site instead. Eleven mature black beech trees are proposed for removal from the eastern side of the road to make it two lanes and improve access to a new subdivision.

Thirty-two BotSoccers took the opportunity to view the trees, as well as the adjacent QE2 covenant on the terrace and the nearby hillside forest. We spent the morning exploring the forest on the flat, with highlights including large black and hard beech, kahikatea and rimu, a diversity of ferns and several orchid species. We walked along the road to view the trees facing the chop, then as far as the "Keep Out" sign marking the start of the new subdivision. The bulldozing of driveways and level sites for the thirty-one houses to be built has already resulted in the removal of large areas of regenerating forest.

After lunch by the house and a quick discussion about *Juncus* identification, we headed up the hill on the 'blue' track. The lower slopes were dominated by large beech trees, and we marvelled at the diversity of fungi beneath them, especially tooth fungi—we thought we could see five different species. Shaun's keen eyes also spotted the tiny flower of a *Corybas cheesemanii*.

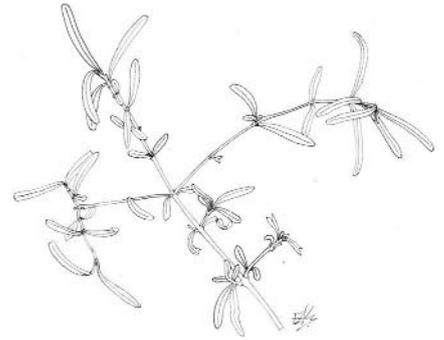


Auriscalpium umbrella, a toothed fungus associated with beech was common on the hillsides. Photo: Carol West.



Spurred helmet orchid (*Corybas cheesemanii*). Photo: Shaun Thompson

Further uphill kānuka (*Kunzea robusta*) was dominant and the track became steeper and muddier with some turning back at this point. Others were fooled by a false summit, which had a good view west and interesting plants amongst the boulders, including four species of orchid (*Bulbophyllum pygmaeum*, *Earina autumnalis*, *E. mucronata* and *Dendrobium cunninghamii*). The few who reached the true summit of the blue track and climbed the wooden viewing tower were rewarded with views in all directions.



Coprosma colensoi. Illustration: Eleanor Burton.

Participants: Jenny Atkinson, Paul Bell-Butler, Eleanor Burton, Gavin Dench, Michelle Dickson, Joe Dillon, Jenny Fraser, Julia Fraser, Ken Fraser, Amelia Geary, Richard Grasse, Chris Horne, Kate Jordan, Jane Lenting, Kate Littin, Lauren MacKenzie, Pascale Michel, Chris Moore, Leon Perrie (co-leader), Lynne Pomare, Dave Reynolds, Beverley Scott, Lara Shepherd (co-leader, scribe), Sunita Singh, Owen Spearpoint, Julia Stace, Jean-Claude Stahl, Jon Terry, Shaun Thompson, Anne Tuffin, John Van den Hoeven, Carol West.

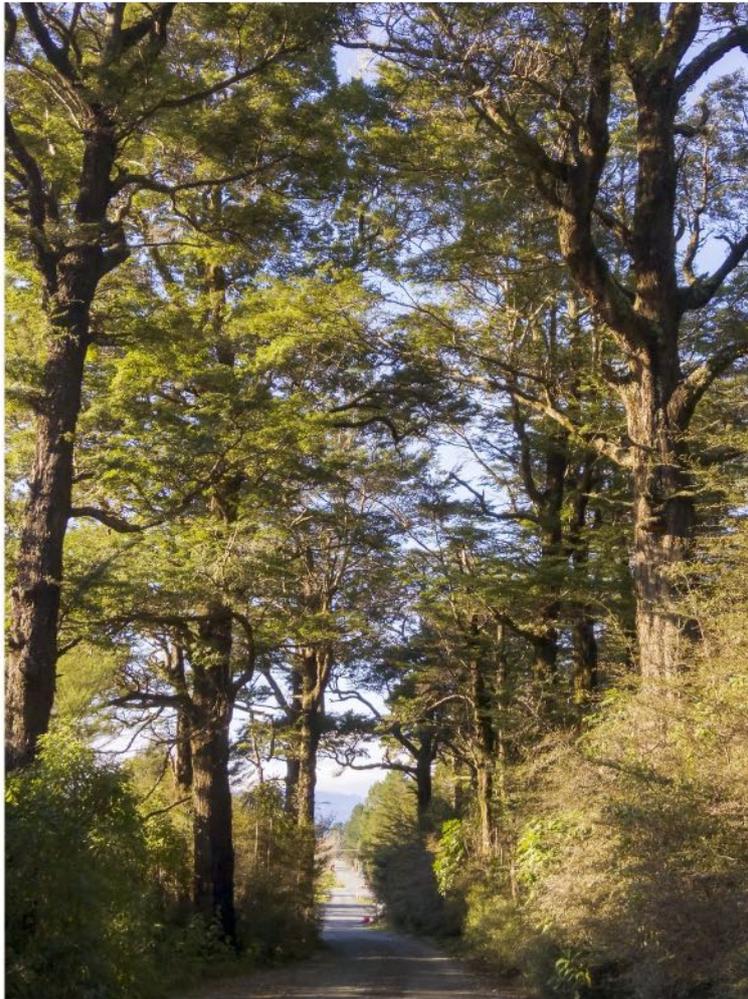


Jon Terry, assisted by Chris Horne, leading a plant identification session. Photo by Jean-Claude Stahl.

Thank you to Josh Bailey and Melanie Hamilton for allowing us to access their property. Jean-Claude Stahl kindly drew our attention to the site, facilitated our access and did a recce and preliminary species list with Pat Enright and Chris Horne. Thank you also to Jon Terry for leading an introductory session on plant identification.

SAVE THESE TREES !

Every one of those centenarian trees may be cut down for a road extension on Katherine Mansfield Drive, Whiteman's Valley



Ask Upper Hutt City Council for a **ONE-LANE OPTION** instead to save this last valley beech remnant near the end of a no exit road!

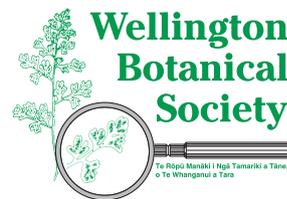
Council contact details:

askus@uhcc.govt.nz

04 527 2160

Subscription Notice 2022–23

PO Box 10-412,
Wellington 6143



Charities Commission
Registration: CC10518

1 September 2022

Your subscription for the year ending 30 June 2023 is due.

We really appreciate your membership. Your subscription fees allow us to produce 3 newsletters annually and publish the bulletin, which is produced once every two years. It also contributes to bringing speakers in from out of town for our monthly meetings. And in this past few years, pays for our zoom subscription so we can broadcast our meetings out further, making us more accessible to our members, such as those with young families and those who live out of the city and find it challenging to travel to our evening meetings. Any donation to support research into NZ native plants is welcome. This will be added to the Jubilee Award Fund.

Wellington Botanical Society Inc. no longer accepts Cheques as payment:

Payments can be made directly to the Society's Bank Account - 02 0536 0017812 00 – including following details:

Particulars: *Name*

Code: *Membership type*

Reference: *amount of any included donation*

Or can be made as a cash payment in person at our monthly meeting. Please enclose this form, along with the payment in a sealed envelope addressed to the Membership Secretary and pass to a member of the committee.

If neither of those options are available to you, please get in touch with the membership secretary, Helen, on 022 413 5194 or the email below:

Subscription enquiries or change of address please contact: wellingtonbotsocmembership@gmail.com

The Memberships Secretary
Wellington Botanical Society Inc.
PO Box 10-412
Wellington 6140

Name:

Subscription for the year ending 30 June 2023 \$.....

Ordinary membership \$35, Country \$30, Group/family \$40, Student \$10

Donation to the Jubilee Award Fund \$.....

(Donations to Wellington Botanical Society Inc. qualify for a New Zealand tax rebate)

Total \$.....

www.wellingtonbotsoc.org.nz

Wellington Botanical Society – 2023 Summer Field Trip

In on 21 January 2023, out on 28 January 2023

Based at **Tautuku Outdoor Education Centre, Catlins.**

To register, complete the form below and send to botsocsummercamp@gmail.com and pay your deposit.

Fill in the checkboxes by clicking on them or using the space bar.

Completed forms and deposit to be in by 25 November 2022.

Attendee details

Name:

Home phone:

Mobile:

E-mail:

Emergency contact name:

Emergency contact relationship:

Emergency contact phone:

Travel and accommodation arrangements

Please indicate which evenings you intend to be at Tautuku Outdoor Education Centre

21 Jan 22 Jan 23 Jan 24 Jan 25 Jan 26 Jan 27 Jan

Type of accommodation you require:

Bunk accommodation in dormitories, \$36 per person/night

Camping (no fires) \$36 per person/night

I/we will make my/our own arrangements.

Please specify your mode of travel to Tautuku, e.g., public transport, own car, or as a passenger with someone else. We have the option of hiring a van from Dunedin airport – please indicate if you wish to use this option.

Own car Passenger in another car Hire van

If you are going in your own car, how many additional passengers could you take?

None 1 2 3 4

If you are taking a car, will it be available for day trips? Yes No

Is it a 4WD? Yes No

Do you have any dietary requirements? Vegetarian Dairy-free Vegan

Student application

Do you wish to apply for the student support? Yes No

If so, are you studying or doing an apprenticeship in 2022 or 2023? Yes No

Please acknowledge that you know you need to pay your own transport to and from the camp and the possible additional cost at the end of the trip. Yes No

Payment

Deposit: Estimated cost per person: \$550. Please deposit \$550 by internet banking when your registration is confirmed.

Account name: Wellington Botanical Society

Account number: 02 0536 0017812 02

Reference: put your name in the particulars/reference boxes of the payee section.

At the end of the trip, depending on the final cost, you will be sent an invoice (or a refund) for the full cost less your original payment.

E-mail the registration form to Megan Ireland botsocsummercamp@gmail.com



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: YES / NO (Delete as appropriate)

My/our e-mail address@.....

Signature Date:..... / /

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

Membership fees for the year ended 30 June 2023 are:

Type of membership: *Ordinary* \$35; *Country* \$30; *Student* \$10; *Group/family* \$40.

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

Please pay direct to the Society's bank account 020536 0017812 00

using the following details:

Particulars: *Name*

Code: *Membership type*

Reference: *amount of any included donation*

and e-mail this completed form to the Membership Secretary at wellingtonbotsocmembership@gmail.com

or post to: **Membership Secretary, Wellington Botanical Society Inc, PO Box 10 412, Wellington 6140**

Payment enclosed for	Ordinary membership	\$.....
	Country membership	\$.....
	Student membership	\$.....
	Group / family membership	\$.....
	Donation	\$.....
	TOTAL	\$.....

As we can no longer accept cheques, cash payments can be made directly to a member of the committee on meeting nights or field trips if the correct value is placed in a sealed envelope addressed to Membership Secretary with a copy of this form.

Authority to release your name, address and phone number to other members of the Society

The Society holds the names and addresses of all members to use for post-outs of newsletters etc.

The committee sees benefit in circulating the membership list to all members. This is done by many societies to enhance social interaction as well as being of practical value.

Under the Privacy Act the circulation of names on such lists requires the approval of the individual members.

If you agree to your name and address being on the circulated list, please sign the authorisation below and return it with this membership application.

I agree to my name, email, address and telephone number being on the membership list to be circulated to members of the Wellington Botanical Society. I understand that this list is to be used only by members, and that the circulated list will include the caveat that the list is for social and society use and is not to be used for any other purpose.

Specifically the list is not to be used for marketing, soliciting or political purposes.

Name..... Signed..... Date / /

Name..... Signed..... Date / /

If you do not agree, it would assist processing if you could please put a line through paragraphs above and return the form unsigned.