

MenzShed Kapiti Incorporated. Registered Charitable Entity Nr CC45795 Secretary, 16a Major Durie Pl, Waikanae Beach 5036 Telephone (04) 293 7728 Email: menzshed.kapiti@gmail.com

NEWSLETTER – June 2023

No. 146

From the Chair

Talofa lava

I got a call recently from a guy who wanted to join our Shed. It is not uncommon when I take these calls for the person to ask if the Shed is only for guys who have trade or practical skills as they have neither.

I quickly dispel that thought by using my own lack of experience in the trades and my limited practical skills as an example of it not being essential. I then point out the wide range of work and life experiences we have among our members and the many activities and roles we have on offer at our Shed. I reassure them that they can definitely make a contribution and point out we can also "teach old guys new tricks" by teaming them up with others.

This had me thinking about how we could do better in finding out what skills, knowledge, interest and hobbies our members have and to better utilise these. Not everyone feels comfortable standing up at the morning brief and telling everyone about themselves. The membership form isn't an ideal way to do it either.

I would be interested in any ideas on how we could do better in this area?

On a similar note, some Sheds run sessions where those who are interested come together and help each other record their 'life story'. Apparently, it is quite a therapeutic exercise and provides their whanau (family) particularly their mokopuna (grandchildren) with a written or recorded account of what their father/grandfather has done during their life time (and maybe some wise words of wisdom). Again, if there is interest in doing this, please let me know.

Malo soifua

Tony A

Upcoming MenzShed Activities

Just a memory jog of what Menzshed Activities are happening in the foreseeable future. Make sure you have them in your own Diary.

Event	Date	Where	Comment
Training – AED&CPR	10.30 27 th July	@the shed	Max 30 attendees. Ron McNulty is the coordinator
Sharpening tools	Last Thursday of Month	@the Shed	This is a regular event
Fresh Scones	Last Thursday of Month and whenever there is a Birthday shout!	@the Shed	Hans will be producing his superb scones fresh from the oven
Committee Meeting	22 nd June	@the Shed	
Committee Meeting	4 ^h Aug	@the Shed	
Annual General Meeting	14 th Sept, 12.30	@the Shed	

The **Workshop** is intended to be officially opened on the **Saturday 26th August**, (this year), though there will still be some minor items still to finish off.

Menzshed Book Club

It was suggested that the members of a shed read "Fifty Shades of Grey" and at the next meeting with some notes relating to their reaction. Here are some of their notes:

- It would come in handy when repainting the house.
- We tried various positions round the back, on the side, up against a wall. But in the end we came to the conclusion the bottom of the garden was the only place or a good shed
- She stood before me trembling, 'I'm yours she gasped", "You can do whatever you want with me." So, I took her to Mitre 10.
- Ever since she read THAT book, I've had to buy all kinds of ropes, chains, and shackles. She still manages to get into my shed!
- "Put on this rubber suit and mask," I instructed calmly. Mmmmm kinky she purred. "Yes," I said, 'you can't be too careful with all that asbestos on the shed roof."
- "I'm a very naughty girl," she said, biting her lip. "I need to be punished." So I invited my mum to stay for the weekend.
- "Harder!" she cried, gripping the workbench tightly. "Harder!"
 "Okay," I said. "What's the gross national product of Nicaragua?"
- I leaned back exhausted, gazing happily out of the shed window. Despite my concerns about my inexperience, my rhubarb had come up a treat.
- "Are you sure you can take the pain?" she demanded, brandishing stilettos. "I think so," I gulped.
 - "Here we go, then," she said, and showed me the receipt.

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Around the Shed

We are getting towards solving the flooding problem. Behind the workshop four water storage tanks are going in. They will temporarily hold the flood water and gradually release it to a soakaway.



Preparing the base for the tanks



Moving the tanks into position



Peter B assembling the gabions (plastic crates) to form the soakaway

The water tanks arrive

Heigh Ho Heigh Ho We dig, dig, dig, dig, dig, dig, dig From early morn till night We dig, dig, dig, dig, dig, dig, dig Up everything in sight.

Compulsary Menzshed song whilst digging! by Dennis H



Assembled gabeons

When activists glued themselves to the floor of the Volkswagen plant in Germany, Volkswagen management sent all the employees home and turned the lights out.

When they came in the next day, the activists complained that they had to pee & poop in their pants.



The gangs digging the soakaway while they sing.



The first gabeons in place in the soakaway trench, they are wrapped in filtewr cloth

I'm starting to like the German way!.....





Planter boxes put together by Alan W for the Salvation Army sheltered accommodation.



The last Thursday of the month is Scon / Scone Thursday



Barry I and Charlie L playing their favourite sport





Alf C giving a talk as about his life as a chief engineer onboard ships

The newly recruited guard watching over the "posse" of bikes. Dennis H

A Horse walks into a bar. The bartender says, "Hey, you're in here a lot, are you an alcoholic?"

The horse ponders for a minute then responds "I don't think I am." And poof, he disappears.

This is where philosophy students start to snicker, as they're familiar with Descartes' famous postulate, "I think, therefore I am."

But telling you that first would be putting Descartes before the horse.



No, that's not what it's used for, but it somehow brings comfort and fulfills a need! There is no lock on the door but you are safe with Barry I standing guard. Residents are Murray C, Kevin A, Dorwin H and Charlie L



The shed that Brian D and his helpers, Grahame our resident vet, and hired muscle big Mike, put back together recently. We are looking for a buyer - starting offers from \$250 please

It will be sadly missed!



Roger C making 'shelves' for Kapiti Neuro Therapy, they are used for abused or sick children to make a safe space where they can go to and talk about. This is about the fourth batch we have done.



How bountiful is the garden even at this time of year!



The Weta Motel team making sure NZ wetas will be safely accommodated.



David S with is vertical jigsaw of penguins



Probably the most important activity at the shed!



Mike E in the metalworkshop





John P putting the finishing touches to a table which had a broken leg.

I got myself a seniors' GPS. Not only does it tell me how to get to my destination, it also tells me why I wanted to go there.

There is still time for normal work, Grant F with a repaired stained glass window frame he rebuilt.



Frank about to perform a handstand on an old table



Derek C putting the finishing touches to the latest seat.



The seat back framed by Derek C



The last Thursday of the month is Scon / Scone Thursday



Very flash hot glue gun stand by Ian B



Glen H moving the soil pile.



Ray Y staying sharp



Water cooler donated by Doug C when he went back to the states



Work never stops for the gardeners, somehow I think they are enjoying themselves.





Barry I and Charlie L playing their favourite sport.

Part of the firewood gang, Cliff D, Charlie L & Barry I discussing the technicalities of cutting timber



Alf C giving a talk as about his life as a chief engineer onboard ship.



Testers for the new skateboard ramp made by Noel T and Mark K

It's a five-minute walk from my house to the pub. It's a 35-minute walk from the pub to my house. The difference is staggering!









Gordon M brought in a broken weaving machine with broken selectors. John P was able to put them back together with pva and replaced the bolts which had worn the hole in the timber.



The Workshop

Safety and Personal Protection - by Alan Waterfield

We have gone to great lengths to ensure the safety of everyone on site. Firstly, standard practice is to now provide RCD protection, they have become readily available in the last 20 years and their price has significantly dropped. We have installed RCDs on every final circuit, both single phase and three phase. RCDs provide personal protection and will trip if there is a very low earth fault of the type that would cause you an electric shock. They are designed to trip before your heart goes into fibrillation, you will get a shock but almost certainly not fatal, I would suggest you don't try and find out!

In the past electrical circuits were only protected by fuses. Circuit breakers were introduced, and over time they have got smaller and are generally called MCBs (miniature circuit breakers). MCBs have the advantage that they are effectively a switch that can be easily reset. Fuses and circuit breakers are intended to limit the current that passes through a supply cable to a safe value. In this case, "safe" refers to the fire risk caused by an overloaded circuit; it can be assumed that a fuse or MCB will never blow or trip if you get an electric shock.

Good standard practice as required by the Electricity Regulations is to combine RCDs and MCBs to provide personal and property protection.

Additionally, all circuit breakers in the workshops are what used to be called motor rated, this means that they are less susceptible to tripping when a motor or transformer with a high inrush current is started. All this technology came at a high price, the RCDs and circuit breakers in the workshop switch board cost a total of \$3000.

Where practical, an ongoing project is to retrofit all rotating machines with a lock out system that would prevent those machines from restarting in the event of a power failure. In other words, a bench saw, or drill press would not begin rotating until a start button is pushed. In some cases a dust

extractor will also start in tandem with the machine. In the meantime ensure all machines are switched off. Almost by definition hand tools cannot be included in this project, but in the event of a power failure one hand tool that needs to be switched off is the disc grinder, these are often locked on when in use.

We have started installing a series of emergency stop buttons at strategic locations throughout the workshops. These are red illuminated mushroom shaped buttons, if any one of them is hit, everything in all workshops will shut down except the lighting. When the workshop is first switched on in the morning a green reset button at the switchboard will need to be



Emergency stop / lockout buttons and switches on sample board

pressed, if all emergency stop buttons are correctly set, they will then illuminate to red. If any emergency stop button is hit or has been left unset, that button will lock out and will start flashing red, the workshop reset button will also flash green; all other buttons will go out. Individual buttons can be reset and will stop flashing but remain at red, all other buttons will stay dark. The workshop can only come live again when the workshop supervisor has identified any issue and is satisfied that it is safe to operate the green workshop reset button at the switchboard. Something that has yet to be

People who wonder whether the glass is half empty or half full are missing the point. The glass is refillable.



Alan W and Cameron F at the main switchboard, the control board is to go where Cameron's elbow is sitting

negotiated is the intention to link this shut down system with the fire alarms, in the event of an alarm the workshop will shut down.

The machine or appliance operators are the first line of defence, if any cables look damaged or the outer sheath has slipped back exposing the coloured (primary) insulation inside then it needs to be <u>competently</u> repaired!

I was recently working at another organisation and needed to plug my extension lead into a socket, there was already a plug in the socket that I had to remove, when I did, I could see that the primary insulation was visible. After I finished my work I opened the plug to tidy it up and I could see that not only had the primary insulation been deliberately left exposed but the neutral and earth had been transposed.

The Workshop is intended to be officially opened on the Saturday 26th August, (this year), though there will still be some minor items still to finish. Here are some progress photographs:



Noel T, John D and Mark K at one of the new workbenches



Ian P and Noel T progressing the workshop



10 Doug W and Ron Mc assembling the dust extractor/ filters



Completed dust extractors



Peter H sealing the joints prior to painting the floor

The sextant has become the symbol of navigation. Whilst it is true in practical terms, that the sextant has been outperformed in everyday use by the simplicity of other electronic aids to navigation, the sextant, an accurate chronometer, charts and navigational tables still remain the baseline tools for calculating one's position on the earth's surface. When the mains and battery power fail, or countries nefariously interfere with satellite GPS transmissions, the sextant remains the fallback option for navigators. As such, the competent use of the sextant and the mathematical calculations needed to produce accurate results remain a crucial part of Nautical College teaching today.

Essentially, it is used to measure the angular distance between two objects; and, under good conditions and with a competent user, it is capable of reading to 0.1 minutes of arc - where 1 minute is approximately equal to 1 nautical mile. The sextant is usually used vertically to measure the angle between the horizon and the sun, moon, planets, or navigational stars (the altitude). This produces crossing position lines and thus an observed position.



Position line navigation

Calculations made from sun altitudes at noon, when the sun is due north or south, will provide a latitude. The star Polaris, placed almost at the North Celestial Pole will also provide an instant latitude provided you are in the northern hemisphere and able to see it!

The German PLATH sextant lies towards the top of sextant brands. The company started in 1862 when an existing small repair shop for instruments was sold to Carl Plath - a skilled German instrument engineer. In 1889 at a Hamburg trade fair, he won a Gold Medal for the 'extraordinary precision of his nautical instruments", and, in 1900, at the World

Trade Exhibition in Paris, he received the highest award, the Silver Medal, for nautical instruments in merchant shipping. A PLATH sextant was even used by the airship Graf Zeppelin on its trip around the world in 1929!

High demand for navigational instruments before and during WW2 saw the company expand, but the end of the war brought circumstances that caused the company to retract in both size and production. 1949 saw nautical precision instrument manufacturing returning once more to full scale. From the 1950s to the turn of the century company ownership moved through American companies and finally came to rest with the Northrop Grumman Corporation in 2001. C.PLATH sextant manufacturing now takes place under licence by Hein & Oetting Feinwerktechnik GmbH in Hamburg.

I started at sea in 1967 as a Deck Apprentice with a vernier sextant. In 1970, having completed my first professional seagoing qualification, it was time to upgrade, and I chose a PLATH micrometer sextant bought from Thomas Foulkes Ltd of Leytonstone, London. Thomas Foulkes was (the company unfortunately went into liquidation in the late 1990s) a very well-known marine chandler; the business was a very untidy place nestled under railway arches in the east end of London and sold all sorts of marine odds and ends that you would never find elsewhere.



Similar WW2 Sextant

I didn't examine the sextant much over my years at sea. The instrument had come in a well-used box made of a material that seemed to be not much different from plywood; I saw various markings on it but it performed well and accurately and I wasn't that interested in its past history. Eventually, the passing years took me into retirement and, as one does, I started to take more interest in what had served me for my years at sea. It was at this point I met Ian Barbour who offered to craft a new box, of similar dimensions, in rimu, with

new brass handles and clips and internally lined with green felt. He did a beautiful job, he always does of course, but that only spurred me to find out more about the instrument itself.

I wandered by email through Hein & Oetting and the German branches of Northrop and Sperry before being directed to the desk of Lothar Besancon in Hamburg who had access to the "Old Data". He certainly did and he was only too willing to help. He found the original sextant examination agency workbooks for all PLATH sextants in which my sextant 26155 was clearly identified. This indicated that the sextant must have been produced before 1944, during the war, which matches the fact that it is made of black-painted aluminum rather than in the more normal brass which, during the war, was a rare material.

In its original state the sextant would have had the Kriegsmarine Adler (Eagle) with the Gothic M together with the additional Kriegsmarine serial number on it, but it seems that Thomas Foulkes, or an agency prior to them, removed these war insignia to make it more suitable for peacetime sale. It would have looked like a similar sextant of the period - as shown above. The civilian "Sunseeker" emblem, put

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Workbook Extract

on all PLATH sextants, is also visible in the above picture (circled in red) but it looks to have been mistakenly removed on mine. Perhaps it was viewed also as an additional war insignia? Whilst the remains of the Adler, Gothic M and Sunseeker emblems are still just visible on my sextant - as is the additional Kriegsmarine number. It is understandable, but a great pity nevertheless, that they were ever removed in the first place.

Another beautiful example of Ian Barbour's craftmanship is the complete renovation of a mahogany box containing a solid brass roller ruler. This navigational instrument was made by HEATH & CO London SE9 and intended to be used in chart work to transfer the bearing of an object or a ship's course to and from the chart's compass rose. Heath and Co, well-known makers of scientific



instruments including sextants, was founded in 1845 as a family business, reconstituted as a limited liability company in 1882 and eventually incorporated into W.F. Stanley and Co Ltd in 1937.

This instrument was rescued from the MV PORT PIRIE, a Port Line vessel on which I served as a Navigating Officer in the early 1970s, just prior to the vessel's last voyage to scrap in Spain in 1972.

It is suggested that the engineers, and

particularly a very scared galley boy, all thought she was haunted but that's another story and I digress!

The PORT PIRIE was built in 1947 and I have no reason to doubt that the ruler was a part of the ship's navigational equipment from the start. Because of its very heavy weight I expect it generally rested at the back of a drawer somewhere and that wood/plastic parallel rules were used in its place. It is inscribed with HEATH & Co and a catalogue number; but Heath and Co went out of business in 1937 which that does suggest that the roller rule may have actually been made prior to then. Indeed, because it does not also have LTD inscribed, there is a possibility that it was made prior to 1882? Who really knows when it was made or, indeed, which Port Line ship it was even made for? More investigation is needed what fun!



William C with his sextant and ruler



Typical Rolling Ruler

3D Printing to the Rescue!

An inherited Hansa Shredder (Figure 1) was placed in the care of a family member who succumbed to the temptation to allow her children to "help" load the machine with various branches and other vegetation.

Generally, this machine – with its 2HP electric motor - is a solid performer on section trimmings less than 80mm in diameter, but with careful feeding can shred larger stuff!

However, these units are heavy and very awkward to move. No surprise that damage occurred whilst it was being moved around - breaking the starting capacitor box and switch mount (Figure 2). Unless these could be fixed, the shredder would be too unsafe to use – live wires!

Hansa had no spare parts for such an old model, so the alternative (apart from using something like a Systema box or the like) was to design a replacement.

was to design a replacement. *shredder* On disassembly, another breakage was discovered – the motor cooling fan – long deceased and broken in many places. As Figure 3 shows, the

Figure 2 - Broken capacitor and main switch enclosure entire centre of the fan had disintegrated and the remains of some of it was

firmly fixed to the motor shaft. Hmmm, this fan looked like serious challenge to replicate. Happily, there was enough of still intact to allow measurements and the basis of a redesign. 3D printing to the rescue?

3D printing something that someone else has designed is quite straightforward. All it takes is for the design to be loaded into a suitable printer and sometime later, if all of the proper settings have been applied, out pops the finished article.

For an idea of what is available from other people, have a look at <u>www.thingaverse.com</u>. There are thousands of "free" 3D designs.

One design that was particularly useful was a TetraPak holder for a USA Quart Milk Carton. It was re-

proved to be extremely useful.

likely reason is because designing 3D models involves a thorough understanding of one of the 3D designer software packages. There are many of them and all require many hours of training and

are many of them and all require many hours of training and practice. FREECAD 3D was chosen for these designs (not only because it was free, but it is always best to learn something that has a good following on YouTube (tutorials) and is well supported by "Google" search).

sized to hold the NZ TetraPak one litre cartons (Figure 4) and has

Perhaps 90% of all hobbyist 3D printing is done this way. The most

3D Printed TetraPak Holder

Ind main switch enclosure mly fixed to the motor sh



Broken motor fan





For example, the VCARVE 3D software that runs on the MENZSHED CNC machine (currently in the garage), today costs about \$1,080.

Eventually, after a good bit of graft and head-scratching, FREECAD 3D "agreed" to create these three designs and they were sent to the 3D printer.

The finished results, in PLA material, are shown below:



Figure 5 - Prototype motor fan

The prototype fan (Figure 5) was printed using a "rapid = rough" setting on the 3D printer, mainly to check the blade positions and the shaft mount on the rear of the shredder motor. It proved to be a good fit, so a stronger fan was printed more slowly using finer settings (Figure 7).

The capacitor enclosure was bolted onto a separate curved plinth (Figure 6) that is much sturdier and also provides better electrical safety. The enclosure is 2.6mm thick and, as mentioned, PLA material is strong, but not renown for UV resistance. Even so, it should last for years.

The shredder was re-assembled and is now back in service, complete with newly sharpened blades.



New plinth & capacitor and main switch enclosure

and the MENZSHED should offer such a service, please note that it took over 24 hours of additional "learning" just to design these three models and then another 27 hours to print them. This was learning on top of earlier familiarisation with models for simple boxes, tubes/ containers, and lids.



Figure 7 - New fan

That said, a 3D print may well be the only way to replace broken {plastic} parts on a useful piece of equipment.

John Moriarty **MENZSHED Kapiti**

House Move Across our Area

The Menzshed was approached by a friend of a neighbour wanting to move a house and could it be carried over our area. The company offered us an incentive of \$5,000 for this which has been paid into the Shed funds.

Trevor Mc and Ray N liaised with the company and Ray drew up a contract agreement setting out the Shed's requirements.

What we gained through this agreement:

- The garden area at the end of the retaining wall was dug out and the fill redistributed to ease the slope from the lower car park to the top level.
- Two containers were shifted to where we wanted.
- The company chopped down three trees from the Council reserve next door and the Shed got the firewood.
- Pallets of bricks / pavers etc were moved to new locations.
- Two truck-loads of gravel, intended for levelling out the car park, are to be provided when we are ready.

This really suited us as we intend to develop the 'firewood chopping area' by putting up a pole building to provide shelter and storage.

Originally the movers intended to drive across our lower car park, but they decided there wasn't sufficient clearance between the Amenities Building and the garage, so they went through the Council reserve, hence the tree felling.



Moving the containers to make access



Making it's way through the fence from the orignal site



Just squeezing past our firewood pile, they had originally intended to cross the lower yard but at the last minute went across the upper yard.



Crossing the upper car park

We understand that the house is currently parked somewhere in Raumati awaiting Building Consent approval for it to be reinstalled.



Squeezing through the fence next to the gardener's plot into the Council reserve. Notice how they were able to tilt the load and how the brick (presumably) chimney breast had been remove from the house



Anthony W a after helping to lift the house



Moving down our entrance way



The Rabbit Problem

After years of myxomatosis and calicivirus controlling the rabbits on our section they have returned like a plague, and we now have a serious rabbit problem and I have been looking for ways to control them.

The 'partially' cleared site after the house was moved, you can see there is room for a much larger

We live on Peka Peka road and the plague is slowly spreading, originating from the side of the Expressway and going towards the West coast, so be warned.

Our section is bounded by one unoccupied block and the other has a healthy barrier of scrub along the boundary, all of which provides a ready source of rabbits.

We set about trying to deal with the problem. Initially using Pindone pellets but this had little effect, I was put off when, at a farm show, I was told that it took 35 pellets to kill a buck rabbit. I couldn't rely on them eating that many pellets and probably would not be able to afford it.

I was advised to shoot them. Don't want to do that, I don't want a gun on my property, I can't even hit the targets at a fun-fair, and don't want to have to keep going out at night - would rather watch Netflix!

A neighbour has set up several ultrasonic sounders, solar powered which are reputed to drive rabbits away, (available from Ali Express <u>Click here</u>), he thinks they have some success but still has rabbits.

Penny, my wife, heard that coffee grounds is not good for rabbits and is filling scrapings and burrows with them. I was skeptical so I consulted ChatGPT the AI program. Here is the abridged response to my question of *"what effect does coffee grains have on rabbits?"* – Maybe there is something in it!

"Coffee grounds can have harmful effects on rabbits if ingested. Rabbits have sensitive digestive systems, and certain substances found in coffee, such as caffeine and other stimulants, can be toxic to them. Here are some potential effects of coffee grounds on rabbits:

- 1. Caffeine toxicity: Coffee contains caffeine, which is a central nervous system stimulant. Rabbits are highly sensitive to caffeine, and even small amounts can cause adverse effects. Consumption of coffee grounds can lead to restlessness, rapid breathing, increased heart rate, tremors, seizures, and, in severe cases, even death.
- 2. Digestive disturbances: Coffee grounds can disrupt the delicate balance of a rabbit's gastrointestinal system. Rabbits require a high-fiber diet primarily composed of hay and fresh

vegetables. Coffee grounds lack the necessary fiber and can cause digestive issues such as diarrhea, bloating, gas, and gastrointestinal discomfort.

3. Dehydration: Coffee grounds can have a dehydrating effect on rabbits due to their diuretic properties. Increased urination can lead to fluid loss, which can result in dehydration. Rabbits are particularly susceptible to dehydration, and it can have severe health consequences."

There is a 'Rabbit' Watch web site at https://rabbitwatch.org.nz/articles-about-rabbit-control/ which has a lot of information about dealing with rabbits.

There are some sprays you can use on plants to make them unpalatable to rabbits,

- Treepel available from Farmlands costs about \$25 a box, lasts about 3 months.
- Plantskydd from https://www.advancelandscape.co.nz/ and costs about \$120 to protect 1000 plants for 3-4 months.

The Wellington Regional Council have a rabbit poisoning service really aimed at farms, but they will do smaller sections if there is a serious problem. They lay carrots laced with Pindone liquid dyed green to distract birds. It costs about \$90 for three acres and needs doing a couple of times a year. You can do it yourself but you will need a licence to get Pindone Liquid. To get the licence you must pass a test, (link on the Rabbit Watch site), the test costs \$250 and is aimed at industrial needs not domestic needs.

> The Biosecurity officer from the Regional Council inspected our property and gave us some advice. He said the only longterm solution is to put a wire mesh fence around the property burying it into the ground by about a foot. To be positively secure we should have the gate closed and a wire mesh below it and then do the full Pindone treatment to get rid of any resident invaders. A big job!

A neighbour and I visited the Regional Council where they prepare the poisoned bait and here are some photos of taken at

They got their carrots from Pack and Save, in bulk and were very careful to cut them down to a particular size of bait, about 1.5mm³ chunks the residue being

sent to the pigs. They didn't want

Pindone liquid is very effective but will kill other animals so carrot laying has to be well controlled.



Carrot slicing machine

the smaller pieces being eaten by birds.

Great care was taken to protect the operators, Pindone is a blood thinner even to humans, so they have to be careful.

the visit.

The completed bait We have arranged for the Regional Council to come around and we will see

if this makes any difference. If so we will continue with the coffee grounds and the occasional Pindone carrot treatment.

Will let you know how we get on.

Mixing carrots, Pindone liquid and



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Plus a special mention of support of our MenzShed Kapiti backers, local businesses, supporters and sponsors.



Boys Toys and Just Stuff for Community Projects

Remember these magnificent people when you plan your next special project