

# TreeMatters

THE QUARTERLY MAGAZINE OF THE  
NEW ZEALAND ARBORICULTURAL ASSOCIATION INC.

Edition 70/71  
2016  
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## In this issue

*Taking care of  
your chain and  
the environment*

*Incy wincy spider  
went up the  
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the planter box*

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New Zealand Arboricultural Association Inc.,  
PO Box 1193, Nelson, 7040, New Zealand [nzarb.org.nz](http://nzarb.org.nz)

**Mission statement:** *To encourage, foster, improve and educate members and others in all aspects of arboriculture throughout New Zealand.*

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# TreeMatters

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Spider Climbing Trousers



Apex Multi Helmet



Project Bloom

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# Prez Release

## Merry Christmas



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**By Seth Thompson**  
**President NZ Arb 2016**

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Welcome to the last edition of Tree Matters for 2016. I'm sitting in my home office, aka the lounge; it's a small house, trying to think of something to write for the president's report. Its very easy to rehash the same thing each issue so this time I decided to put a bit more thought into it.

Summer is here and it's blowing a gale today. All the trees are swaying around and the Norfolk pine in the centre of my view is bending about one meter in the gusts. Incidentally it still has as a nice live top unlike many others in the neighbourhood.

To the east I note how much the trees in my neighbours garden have grown in the four years I have lived here. They were all planted at the same time, the Karaka and cabbage trees are doing well and the lemonwoods and Karo's and Kanuaka's are all wind swept and salt burned (I'm secretly thankful as they would block some sun on my lawn). It's quite interesting seeing the different growth rates of trees, especially in such a harsh environment.

I trust those of you who attended the conference and the climbing competition enjoyed yourselves and found it a worthwhile event. To me it was a real success. Well organised, well provisioned and well attended. Aside from the amount of public speaking I had to do, something which I find quite nerve racking, I really enjoyed myself.

I would like to thank Chris Walsh, Nick Arnold and Conrad Paterson, who stepped down off the executive this year for their hard work and dedication during their terms. They were all extremely hard working and dedicated members of the team.

I would like to welcome David Spencer, Mark Roberts (back) to the executive.

The executive has held its first Executive meeting since the conference and formulated a strong plan of attack for the coming year. NZARB is in a good position and have a really strong team, so expect good things for the coming year.

Congratulations to Nicky Ward-Ellen and Andy Neverman for their recent success at the APTCC. It was fantastic to hear feedback from those who attended, about how well the event went, including lots of jealousy around the NZARB teams uniform.

Have a great Christmas and New years, enjoy well-earned Holidays.

Merry Christmas to all.

# Re-Invention

## Welcome to the new Tree Matters



**By Jon Redfern**  
**NZ Arb Editor-in-Chief**

Correspondence to  
treematters@nzarb.org.nz

Reinvention. Change. Out with the old and in with the new. These are words and concepts that shape our lives and businesses. While necessary to maintain, keep ahead, or forge new ground, taking ideas and making them reality can tax time, energy and money. Just making small simple changes to a company or organisation can improve work and/or standards immensely; however, they need to be carefully thought through during conception so changes don't become

burdens. Reinvention is a larger beast and commensurate to the size of the organisation. It can be overwhelming and risky, but also necessary and rewarding. Change and reinvention through committee is no different. Tree Matters is the marquee publication of NZ Arb and, although unique, like all publications change and reinvention is important. You will note that this Treematters is different, upgraded, improved – changed. Changing the style and paper stock have

been the easy decisions. Over the next publications we will also start reinvention. This change and reinvention has only been possible through the contribution of many over the years so at this stage we would like to thank Nick Arnold, who is leaving our fine shores, for his forethought for change and contribution. As we move forward we would love to hear from you with stories and photos. Email or call myself or Lea Bodee to add and contribute.

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# Incy Wincy Spider went up the... Quercus rubra



Can't resist a recreational climb on the weekend? Hear that red oak calling you? It's not an uncommon problem for arborists. The call of the tree is sometimes just too great. Of course, you might not want to wear chainsaw protection at the weekends or in the evenings. You'll likely want to wear Spiders though.

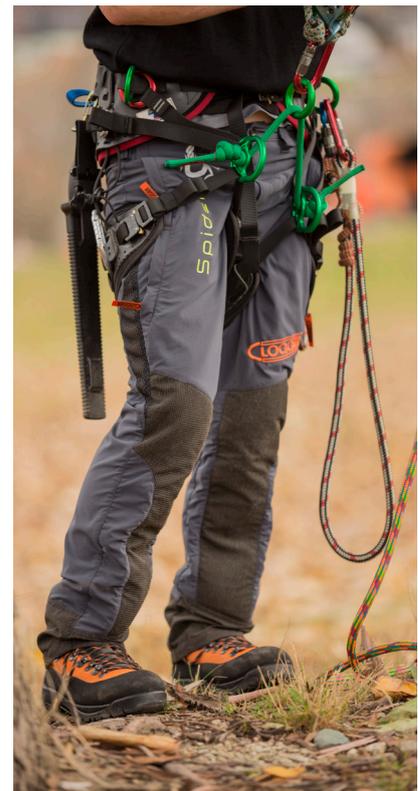
Spiders? Yup – spiders. They're a new breed of climbing trouser from Clogger. It's their first foray into non-chainsaw protective clothing and is aimed at recreational and competition climbers. Made from the same Nilit Breeze material as the popular Zero Trousers, they boast the same incredible cooling capability. This comes courtesy of the unique construction of the fabric, delivering the ability to better control your core body temperature. In that regard, the Spiders are arguably the first sports performance climbing trouser specifically designed for arborists and climbers. Additional cooling comes from the ventilation allowed courtesy of the rear mesh panels. They are also incredibly light, coming in at under 1/2kg.

In fact, whatever you put into the 4 zipped pockets will likely weigh more than the trousers themselves. There are two large zipped hip pockets, as well as two zipped lower pockets which remain accessible when using a harness. The material used is made to stretch yet is remarkably resilient, being a high tenacity fabric. Areas such as the knees and shin have added padding, whilst abrasion resistance has been added from the knees to the inner cuff. The attention to detail and construction reinforcements continue with the high strength gusseted crutch. In short, the design has taken into account body movement and the environment, providing the climber with a purposeful garment that helps rather than hinders.

Spiders have been a long time in the making and been extensively trialled in the field, from the World | Climbing Championships in San Antonio to the heat and humidity of Hawaii. The project has always very much been a collaborative effort with the professionals and that shows in the end product, which really delivers.

Spider Climbing Trousers are available now in grey. A contrast model (featuring orange flashing) will be available soon, followed by an all-orange model by the end of the year.

For more information visit [www.clogger.co.nz](http://www.clogger.co.nz) or ask your local stockist.



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# Tricky Trees Ltd

## Avant 635 Review

**By Chris Boniface**  
**Managing Director**

correspondence to:  
[chris@trickytrees.co.nz](mailto:chris@trickytrees.co.nz)

Tricky Trees Ltd recently purchased an Avant 635 to reduce some of the heavy lifting associated with tree work and firewood production. We have been pleasantly surprised at just how versatile this machine is and my crew now insist the Avant is on hand on most jobs, even for clearing the site of brush and taking it to the chipper using the

Grapple Bucket. Productivity is definitely up!

The Avant has been well designed and built to last at the same time being pleasant to look at. The clients are always impressed when we rock up to site with our new addition. Phil of Glenbrook Machinery has been great to deal with and more than accommodating with any

request/query being quickly responded to. It's nice to come across this level of service in today's busy world.

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# Project Bloom

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**By Alvar del Castillo De Aguinaga**  
**Otago Polytechnic Arboriculture Lecturer**

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I work at Otago Polytechnic as an arboriculture lecturer and I am currently completing a Tertiary Education Diploma. In 2015, I used instructional videos to teach Unit Standard 17262: Carry out an arboriculture tree inspection - and called this 'Project Bloom'. As part of their learning and formative assessment, students were asked to create instructional videos about how to undertake a tree inspection. I did this to make their learning fun, engaging and more relevant, and help them to develop on-the-job skills they would remember.

## **Project Rationale**

One of the things I have identified as a barrier to fostering confident and capable arborists, is the limited amount of specific teaching resources that we can use for instructing arboriculture students. The arborist profession is on the New Zealand immediate skill shortage list, so competent new arborists are in demand. Our profession is diverse; day to day and from site to site, the contexts and the challenges change, and the scenarios and possibilities are endless. These new arborists need to be able to act in a professional and safe manner in an array of situations. Arboriculture is a unique, still growing industry and this means that there has not been a huge wealth of New Zealand based resources made available

specifically for teaching. This lack of resources is also probably because a large number of arborists are taught through apprenticeship, on-the-job.

A key component of practical trade programmes is the need to demonstrate specific professional attitudes, strategies and skills to the students. This can be done through work experience, mentoring by example or visually, with video resources and images. When a new set of information is being introduced in our programme, a theory session comes first followed by practical demonstrations, using the theory in field situations. When this initial learning of concepts or skills takes place, the use of digital and visual tools such as instructional videos can help to create a better picture of what these skills and actions look like, before demonstrating them in the practical on-the-job context.

## **The project**

Project Bloom was planned around Unit Standard 17262: Carry out an arboriculture tree inspection. The project used existing instructional videos in the initial theory stages of the teaching process, but expanded on this by getting the students to create their own instructional videos.

I structured the project around the "See One, Do One, Teach One" framework. This framework is based on the idea that if students saw a demonstration of an action, they would be able to replicate it. To then teach the same action to someone else would further reinforce their understanding and knowledge of the concept.

As the basis of the 'See One' part of the framework, I found and pre-edited videos of tree inspections from YouTube, adding questions and pauses with a free programme called edpuzzle.com. I used these videos in the first class to introduce the ideas behind tree inspection in the Unit Standard, followed up by a class discussion. A handout and a guest speaker on the subject rounded out the theory. For the 'Do One' component, the next step was to carry out their first tree inspection which they did at Chingford Park, Dunedin. In pairs, the students assessed some pre-selected and previously assessed trees, completing a Tree Hazard Evaluation Form, which they used to write their reports.

With the 'Do One' part covered, we moved on to the 'Teach One' part of the project. This began with a lesson on how to plan and record a simple video using the technology that we had available, which was smartphones. In groups, the

students created storyboards and dialogues, making sure to include all the key points that the class had identified as being important to teaching a basic tree inspection. The idea behind this process was to help students to analyse and apply knowledge and skills previously learnt. By reconstructing the concept and passing it on, they could reinforce the content while creating and constructing new teaching resources. The new video resources that were produced by the students could then potentially be used to teach the next class.

### **The outcomes**

My students responded really well to this project and I was impressed by the video resources they produced. I had hopes that this project would be a success, though I kept my expectations low, as it was new territory for both myself and the students. Through out the project the students were open and enthusiastic, and while some technical difficulties held some groups up, they still handed in a final product. The final stage of project Bloom was a screening session, after which the whole class voted for the three best videos. The

most popular video was uploaded to the Otago Polytechnic YouTube channel for the future use of our programme and for the arborist community.

I hope to repeat Project Bloom's model in years to come, thus building a pool of teaching resources and improving the approach for students. Two of the challenges to this project were time and opportunity. It was challenging to find the right Unit Standard which would benefit from this project and to fit the lessons within the Unit standard elements and the time table. Unit Standard 17262: Carrying out an arboriculture tree inspection worked really well with this project as it incorporates so many of the concepts learnt over the year, and it was a good opportunity to expand on the students collective knowledge.

This project taught me as much as, or more than, the students as it has changed my approach to teaching. Including projects like this in my lessons has made it more engaging for the students as they could explore their knowledge in new ways, and hopefully

cement it in their brains. Mixing new technologies into the lessons also makes our curriculum more current. This type of project also teaches other necessary skills of the qualified arborists, such as co-operation, group work, problem solving and communication. I would like to believe that Project Bloom contributed, in a small way, to producing competent and professional arborists.

To watch the most popular student video visit: <https://youtu.be/Cgem-V411hc?list=PL7B2BA5DA6A691940>

I would like to thank Mark Roberts for his guest lecture on the topic of tree risk assessment, and all the students in the 2015 Otago Polytechnic arboriculture programme. Thank you Otago Arb Kids!

Photo caption: Screen shot from video *Fagus sylvatica* 'Purpurea'. 2015 Otago Polytechnic arboriculture student Chelsea Robertson stars in her group's instructional video on how to carry out a tree inspection. Their video was voted most popular by the class.





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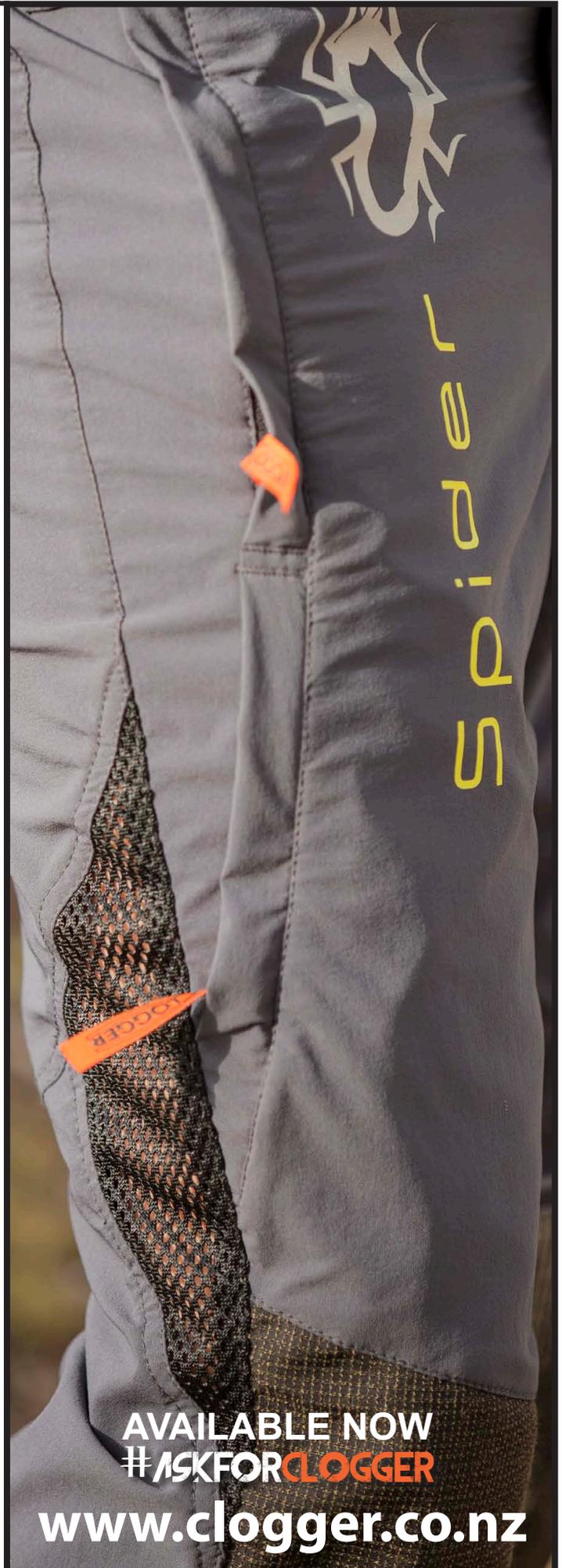
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The new range includes the 536LiXP pole clearing saw, 536LiP4 pole saw and 536LiPT5 telescopic pole saw – each delivering petrol performance, with battery convenience.

A fully-charged, standard battery provides users with the equivalent of approximately one tank of petrol usage. Maximum efficiency and productivity is achieved with a chain speed of 20m/s which ensures these pole saws are powerful enough for most pruning tasks.

Featuring low weight designs, the battery pole saws are exceptionally easy to manoeuvre and control and are engineered to have great balance, so that even when users need to lift the product above their heads, control won't be lost.

The good balance comes from the pole saw's slim and narrow saw head design, since the weight of the product isn't concentrated at the head. The cutting bar is located on the left side instead of the right, granting users optimal visibility because they are able to better see exactly where they are cutting and pruning. This means more precision, quicker cutting, as well as a reduced risk of damaging trees.

As with all Husqvarna battery products, the new pole saw range is intuitive to operate, and users only need to push a button to start or stop the products. Being battery powered, the operational costs are reduced with no

fuel purchases required and the costs for charging the battery are nearly negligible, yet gives performance and power equivalent to that of a petrol product.

### **536LiPX – Two products in one!**

Equipped with a 90 degree adjustable cutting head, the Husqvarna 536LiPX pole clearing saw offers the versatility to quickly switch between horizontal or vertical bar position, transforming the forestry clearing saw into a pole pruner with 3m (9.8ft) reach. With a single charge, the 536LiPX is able to run for up to 6 hours of continuous clearing work when equipped with the battery backpack, requiring a lot less effort compared to traditional clearing saws.

### **536LiP4 – Fixed for high performance.**

The Husqvarna 536LiP4 is a fixed length battery pole saw for professionals, boasting up to 4m reach, with performance levels and results that surpass petrol equivalents. The 536LiP4 provides maximum performance and durability with low weight, excellent ergonomics and quiet operation for use in any location at any time of day

### **536LiPT5 – Unbeatable reach and balance.**

The 536LiPT5 is a quiet and powerful battery pole saw with a durable, yet lightweight aluminium telescopic tube, offering one of the longest reaches on the market at up to 5.5m (16.4ft), equivalent to almost 2-storeys in height. With unbeatable reach, balance and performance, the 536LiPT5 ensures operators can effectively carry out high level pruning tasks, with their feet planted firmly and safely on the ground.

## Technical Specifications

### 536LiPX Pole Clearing Saw

Battery type ..... 36V Li-Ion  
Motor type ..... Brushless  
Standard bar length ..... 10" / 25 cm  
Chain speed ..... 20 m/s  
Reach ..... 3.0 m  
Weight (incl battery) ..... 4.4 kg  
RRP effective 01/09/2016 ..... \$1,377.00 Incl. Battery & Charger (\$829 unit, \$299 Bli50 Battery, \$249 QC330 Charger)

### 536LiP4 Pole Saw

Battery type ..... 36V Li-Ion  
Motor type ..... Brushless  
Standard bar length ..... 10" / 25 cm  
Chain speed ..... 20 m/s  
Reach ..... 4.0 m  
Weight (incl battery) ..... 4.7 kg  
RRP effective 01/09/2016 ..... \$1,377.00 Incl. Battery & Charger (\$829 unit, \$299 Bli50 Battery, \$249 QC330 Charger)

### 536LiPT5 Telescopic Pole Saw

Battery type ..... 36V Li-Ion  
Motor type ..... Brushless  
Standard bar length ..... 10" / 25 cm  
Chain speed ..... 20 m/s  
Reach ..... 5.5 m  
Weight (incl battery) ..... 6.2 kg  
RRP effective 01/09/2016 ..... \$1,477.00 Incl. Battery & Charger (\$929 unit, \$299 Bli50 Battery, \$249 QC330 Charger)

## About Husqvarna

Husqvarna is a brand within Husqvarna Group. Since 1689, Husqvarna has manufactured high performing products and delivered industry-changing innovations such as anti-vibration and automatic chain-break on chainsaws, as well as the world's first commercial robotic mower. Today, Husqvarna offers a broad range of high performing outdoor power products for parks, forest and garden, and represents technological leadership in the key areas; chainsaws, trimmers, ride-on mowers and robotic mowers. Husqvarna products are sold in more than 100 countries, mainly through servicing dealers.

## Husqvarna Group

Husqvarna Group Husqvarna Group is a world-leading producer of outdoor power products including chainsaws, trimmers, robotic lawn mowers and garden tractors. The Group is also the European leader in garden watering products and a world leader in cutting equipment and diamond tools for the construction and stone industries. The Group's products and solutions are sold under brands including Husqvarna, Gardena, McCulloch, Poulan Pro, Weed Eater, Flymo, Zenoah and Diamant Boart via dealers and retailers to end-customers in more than 100 countries. Net sales in 2014 amounted to SEK 33 billion, and the Group had more than 14,000 employees in 40 countries.

# Thinking Outside the Planter Box

## To train or not to train - should not be the question

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**By Mark Robinson**  
**Thoughtplanters Ltd.**

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Recently I was contacted by one of my ex-trainees, an English arborist who was working with me in Melbourne. He is now the operations manager for a London based tree company and has a whole bunch of staff. He contacted me looking for climbers – he thought that I may know the whereabouts of the Holy Grail, the legendary climber supply line... the answer to shortage. But no.

As the conversation went on I was reminded once again that our problems are not ours alone – that his issues, are the same as our issues which are the same issues they face in Australia and in the US too. I was reminded of all of the naysayers that tried to stop new arboricultural training providers due to the ‘glut’ of climbers that would flood the market. It seems the international arboricultural machine continues to consume all of the climbers that all of the training providers can produce and still there is not enough.

He went on to talk about the problems of training; that if you get them [climbers] and

train them up, they leave. Pointing out that this was exactly what he did to me wasn't lost on him but didn't help his situation either.

So what to do; to train or not to train?

My take on this, is simple enough. Train, train everyone. If you think about all the tree companies that you liked working for or wanted to work for, they were the ones that most likely had a culture of training (be it formal or via osmosis due to the mix of people and techniques that were there). Companies that offer training, attract climbers, companies that attract climbers offer training – if you want climbers get a training culture into your company it's as easy as that.

I know first-hand that; ‘train and they will come’ works, because we did and they came, but I also know that the reality is also ‘train and they will go’, because they did that as well. Climbers come and go, they are (we are / we were) a transient bunch and to some extent the ones that come and go

are the ones you want – the ones that haven't gone anywhere... haven't gone anywhere.

So don't not train just because you will lose them – you will lose them, don't fight the fact that you will lose them, accept it and make the most of them while you have them. Get them in, train them up and learn what you can from them (learn what you can while you teach them), let them teach others and when they go, because they will go let them share that knowledge with others and most importantly, yet them spread the word that your company has a training culture. Train and they will come.

# The Time Is Now

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## By Author

**Sue Dwan, Dwan & Associates**

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When is the ideal time to face and accept your own mortality? When you have had a serious workplace accident? When you develop a potentially life-threatening illness? When a friend or family member suddenly dies?

The best time is now, today. A predominant Pakeha/European cultural norm is death denial. This influences an individual's approach to their and others' workplace safety; and to aspects of their own personal lives.

While risk management plans and workplace health and safety are 'must do' business requirements, individuals have no emotional connection to them. Moreover, many don't see the relevance for their own risk management plan outside the workplace, until a fatal accident or near miss or illness occurs to them or someone they know or care about. This has profound consequences for themselves and for their families left with the aftermath.

We need to talk about death as a part of life and living. If experiences, fears and feelings were openly discussed, individuals would be better equipped to face and do what's needed.

While individuals may say they have all their personal affairs in order, statistically and

anecdotally, most don't. The process requires more than a will; it also includes advanced care plans and advanced directives; enduring powers of attorney; guardianship for young children; recording digital assets, including social media, email accounts and service providers; recording loans and monies owed; collating important documents; thinking about and documenting funeral wishes and plans. The process takes time to think about and physically do.

When individuals get their affairs in order as a matter of course and not in response to a sudden event, they get peace of mind for themselves and their families. When employees can face and accept their own mortality and think of others, not just themselves, it enables their employers' risk management plans, HR and health and safety policies and procedures to be much more than a workplace requirement, but one that relates to very personal aspects of their own lives.

This helps create the emotional connection, relevance and impetus, to follow legislative requirements.

Business owners (including the self-employed) have an additional responsibility. Whether their business is small, medium or large, and with or without

staff, they must prepare for a sudden illness, ongoing incapacitation or death. A relative, friend or employee may need to run their business until it can be wound up, sold as a going concern, or immediately shut down. Either way, specific business information must be sourced and documented under a number of key headings; business plans need regular updates in the event of preparing the business for sale; and if the business is to be sold, specific details of how the business actually runs, must also be recorded.

Whether they like it or not, every individual will face their own mortality - 10/10 people die. Acknowledge the high risk nature of your work, and your personal responsibilities to your loved ones, colleagues and employer. Get all your affairs in order before it is too late to do so.

Sue Dwan is a management and business coach, writer, change agent and director of Dwan & Associates. [www.dwandassociates.com](http://www.dwandassociates.com)



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# Contract Climbing or Full Time Employment?

What will be the alternative for someone who finished the certification II and III in Arboriculture to choose from between job positions? Will it be full-time employment or a sub-contractor? What are the challenges they will encounter as soon as they put their first step into the job market? Is it easy to become a contract climber? Are there any requirements or regulations to do so in Australia or New Zealand? What about other countries though? These are the questions we face in the arboriculture industry nowadays. Our perspective comes about when we see “green” workers (aka newbies) putting themselves in situations where they think they can deal with it, as a result of a full-time course or a few months experience, but the contrary it is only the alternative explanation otherwise. Is it so easy to finish a certification and get your first job as a lead climber or foreman? Should they get out there doing complicate rigging jobs or felling big trees? What is the correct and safe path for those fresh out of the oven to take before they engage in something danger and demanding such as big removals or a massive pruning? Always in my mind, I thought to become a sub-contract climber. As everybody says for such event, you would need to have several years’ experience and full understand

about trees whatsoever. What I see these days, it is most people finding a gap in the trade to start their own business without considering the possibility to accumulate enough experience in the field. Is this a good or bad idea? If good, so who are they benefited from? Initially, it is something to reflect about in the future; understanding that limitations always have been part of this game of cut and chop; plant and stake; rig and hope. My mind always had the conception that to get to certain position as a contract climber, you need to be ready physically and mentally. Maturity and experience could be the best classification, which it never passed through my head six years ago. Also, understand how as a self-employed person needs to be organise business wise as part of a daily routine. Realize how different companies deal with their own job schedule and understand that you are responsible for all the individuals present on site, even if you know or not who they are indeed. Not such as an aerial rescue or secondary climber it is something possible to be achieved by the majority of companies, but instead they do not have one or someone capable to provide a rescue of some sort. Coming along with a weird perception: is it could not be a good idea to concretize? I am a contract climber based

in Sydney and I know what you can confront everyday putting yourself in this position. Rely on your skills to deal with all sorts of “pineapple” jobs (an expression to describe the most sketchy and dangerous jobs no one wants to do it.) and expect to finish in a determined time frame. Waking up every day thinking that you will risk your life for the passion and money of the industry... is it really? Indeed. Will that be possible for someone that just started? The case of such companies that employ people is direct related to guarantee good quality of work. Also, in the same time, gives value to someone that shows attitude and interest. Comprehend in this case, as an employee, will receive such value once they agree in respect their limits and follow instructions from someone more experience. At the same path, we understand that progression to an extended career, including the fact of being a sub-contract climber, is affordable in a near future, once this person has completed their maturity inside this game that we all love indeed. So, lead climber, foreman and company owner: Where are they standing in all this? They are the ones who will improve the others whom are starting to one day do the same in a perfect cycle of progress learning.

# Pruning Mature Trees

Understand the pruning needs of mature trees and the proper pruning techniques for their care.

*Pruning is the most common tree maintenance procedure. Although forest trees grow quite well with only nature's pruning, landscape trees require a higher level of care to maintain their structural integrity and aesthetics. Pruning must be done with an understanding of tree biology. Improper pruning can create lasting damage or even shorten the tree's life.*

## Reasons for Pruning

Because each cut has the potential to change the growth of the tree, no branch should be removed without a reason. Common reasons for pruning are to remove dead branches, to improve form, and to reduce risk. Trees may also be pruned to increase light and air penetration to the inside of the tree's crown or to the landscape below. In most cases, mature trees are pruned as corrective or preventive measures.

Routine thinning does not necessarily improve the health of a tree. Trees produce a dense crown of leaves to manufacture the sugar used as energy for growth and development. Removal of foliage through pruning can reduce growth and stored energy reserves. Heavy pruning can be a significant health stress for the tree.

There are many outside considerations, however, that make it necessary to prune trees. Safety, clearance, and compatibility with other components of a landscape are all major concerns. Proper pruning, with an understanding of tree biology, can maintain good tree health and structure while enhancing the aesthetic and economic values of our landscapes.

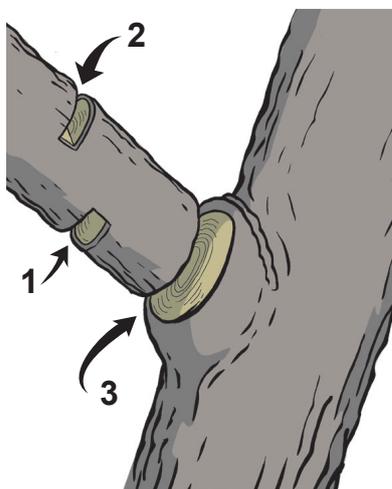


## When to Prune

Most routine pruning to remove weak, diseased, or dead limbs can be accomplished at any time during the year with little effect on the tree. As a rule, growth and wound closure are maximized if pruning takes place before the spring growth flush. Some trees, such as maples and birches, tend to “bleed” if pruned early in the spring. It may be unsightly, but it is of little consequence to the tree.

A few tree diseases, such as oak wilt, can be spread when pruning wounds provide access to pathogens (disease-causing agents). Susceptible trees should not be pruned during active transmission periods.

Heavy pruning of live tissue just after the spring growth flush should be avoided, especially on weak trees. At that time, trees have just expended a great deal of energy to produce foliage and early shoot growth. Removal of a large percentage of foliage at that time can stress the tree.



## Making Proper Pruning Cuts

Pruning cuts should be made just outside the branch collar. The branch collar contains trunk or parent branch tissue and should not be damaged or removed. If the trunk collar has grown out on a dead limb to be removed, make the cut just beyond the collar. Do not cut the collar.

If a large limb is to be removed, its weight should first be reduced. This is done by making an undercut about 30- to 50 cm from the limb's point of attachment. Make a second cut from the top, directly above or a few inches farther out on the limb. Doing so removes the limb, leaving the 30- to 50-cm stub. Remove the stub by cutting back to the branch collar. This technique reduces the possibility of tearing the bark.

## Pruning Techniques

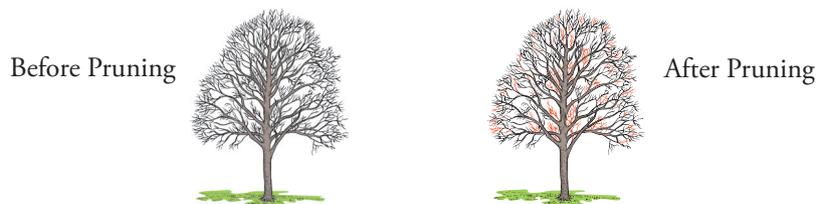
Specific types of pruning may be necessary to maintain a mature tree in a healthy, safe, and attractive condition.

**Cleaning** is the removal of dead, dying, diseased, weakly attached, and low-vigor branches from the crown of a tree.

**Thinning** is selective branch removal to improve structure and to increase light penetration and air movement through the crown. Proper thinning opens the foliage of a tree, reduces weight on heavy limbs, and helps retain the tree's natural shape.

**Raising** removes the lower branches from a tree to provide clearance for buildings, vehicles, pedestrians, and vistas.

**Reduction** reduces the size of a tree. Reducing a tree's height or spread is best accomplished by pruning back the leaders and branch terminals to secondary branches that are large enough to assume the terminal roles (at least one-third the diameter of the cut stem). Compared to topping, reduction helps maintain the form and structural integrity of the tree.



## How Much Should Be Pruned?

The amount of live tissue that should be removed depends on the tree's size, species, and age, as well as the pruning objectives. Younger trees tolerate the removal of a higher percentage of living tissue better than mature trees do. Generally, no more than 25% of the crown should be removed at once, and less for mature trees.

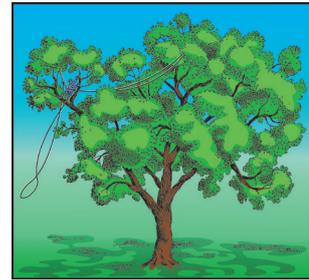
Removing even a single, large-diameter limb can result in significant canopy loss and can create a wound that the tree may not be able to close. Care should be taken to achieve pruning objectives while minimizing live branch loss and wound size.

## Wound Dressings

Research has shown that dressings do not reduce decay or speed wound closure, and rarely prevent insect or disease infestations. Most experts recommend that wound dressings not be used.

## Hiring an Arborist

Pruning large trees can be dangerous. If pruning involves working above the ground or using power equipment, it is best to hire a professional arborist. An arborist can determine the type of pruning necessary to improve the health, appearance, and safety of your trees. A professional arborist can also provide the services of a trained crew with the required safety equipment and liability insurance.



This brochure is one in a series published by the International Society of Arboriculture as part of its Consumer Information Program. You may have additional interest in the following titles currently in the series:

Benefits of Trees

Pruning Mature Trees

Why Hire an Arborist

New Tree Planting

Pruning Young Trees

E-mail inquiries: [askanarborist@nzarb.org.nz](mailto:askanarborist@nzarb.org.nz)

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Through research, technology, and education, the International Society of Arboriculture promotes the professional practice of arboriculture and fosters a greater worldwide awareness of the benefits of trees. For further information, contact: ISA, P.O. Box 3129, Champaign, IL 61826-3129, U.S.

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# Notable Tree Notes

In each edition of *Tree matters* we will feature a tree or trees from the New Zealand Tree Register. The idea is to highlight a specimen or group with outstanding attributes and/or an especially interesting history.

## **NR/0805– *Agathis australis kauri* ‘Toronui (wide-spreading)’**

Despite there being no one present to witness the falling of ‘Toronui’, we can be certain the calamitous event resounded throughout the remote corner of Waipoua Forest where it once held domain.

This mighty tree was thought to have fallen in mid-March 1977 but was not discovered until the following April Easter weekend when the Fletcher and Brown families from Whangamata tramped in to see the tree. They later donated the accompanying image of the fallen tree to The Kauri Museum [1].

Those investigating the tree following news of its demise found it to be largely hollow. Across its diameter of 4.84 m, only 10-12 cm at the outside was sound wood with a further 30 cm of wood being decayed. The remainder was hollow so that when it fell it was said to resemble a large cavern [2].

Is it clear from the early images of the tree that Toronui had been extensively bled for its gum, as was typical of many of our great trees. Knowing what we do today about the relationship between wounding and internal decay it should come as no great surprise that this practice would have played a significant role in ‘Toronui’s’ demise. Up until this time ‘Toronui’ was

considered to be the largest living kauri of recent times. It was said to be a well-balanced tree that was not the thickest, nor tallest, nor longest clean-boled kauri, but was rated at 286.5 cubic metres of merchantable volume, and so was one-sixth bigger than Tane Mahuta at the time [3].

Whilst the discovery and measurement of the tree by forestry worker Jack Boys and ranger Reg Murray occurred sometime in 1926[3], it was not until February 1932 that the first image of ‘Toronui’ was published in newspapers of the day [4]. Contemporary reports describe the tree:

“The branch spread is enormous, being about two and a-half chains to three chains in width, and there is more timber in some of the branches than in the whole of an ordinary tree.” [5]

“At a point some sixteen feet above the ground there is a little platform where bark and humus have accumulated behind thick masses of astelia. Upon this platform the man is standing in the published photograph. The trunk proper may be considered to commence at this level...At a point six feet above the platform the tree is no less than fifty feet in circumference, while the distance from the platform to the first branch is thirty-eight feet. The trunk shows no taper, but its symmetry is somewhat broken by a series of rounded flanges that traverse its entire length. At regular intervals of four or five feet the bark bears regular rows of deep incisions, the remains of the axe-scarfs of gum-bleeders, who, in former times, roamed the forest and exploited the trees for gum. The crown, which is lofty and of

unusual spread and is supported on great gnarled branches which in themselves dwarf many a forest tree, somewhat offsets the thickness of the trunk and redeems the tree from extreme squatness. Below the level of the platform where, at an unusual height above the ground, the origins of the great, wide spreading roots bulge the trunk, the girth of the tree is very materially increased, but it was preferred to record as the true girth the distance round the clean and even bole that rises uniformly above.” [6]

Only 50 years passed from discovery until the day it fell as a result of the hand of man. One might hope that the tree would finally be left in peace but the final chapter came to be written on another Easter weekend in 1982. A tramping party from the Auckland University Field Club walked in to see the fallen giant only to find that vandals had recently burnt the once-enormous log [7].

Please remember ... NZNTT welcomes anyone who would like to contribute to expanding the New Zealand Tree Register (NZTR) database. It’s simple – just follow the straightforward standard method described in step-by-step detail on the NZNTT website. Whether you’re an experienced tree recorder or a first-timer, your effort is appreciated. Your record may make a genuine difference – and it all helps to build a comprehensive database of New Zealand’s notable trees. Authors: Brad Cadwallader, Nelson & Matt Smillie, Wellington



**References:**

- 1) Lunch with a Fallen Giant, 28 April 2011 The Kaipara Lifestyler [http://www.kaiparalifestyler.co.nz/Of\\_Interest.cfm?NewsID=3954](http://www.kaiparalifestyler.co.nz/Of_Interest.cfm?NewsID=3954)
- 2) Burstall, S.W. and Sale, E.V. (1984). Great Trees of New Zealand. A.H. and A.W. Reed Ltd., Wellington.
- 3) Sale, E.V. (1978). Quest for the Kauri. A.H. and A.W. Reed Ltd. Wellington.
- 4) Auckland Weekly News. 10 February, 1932 p.31
- 5) New Zealand Herald, Volume LXIX, Issue 21102, 9 February 1932, Page 11
- 6) New Zealand Herald, Volume LXIX, Issue 21112, 20 February 1932, Page 1
- 7) Auckland University Field Club records, 1923-1994. Field Club Notes 1982 p. 247

Collins, T.W. [View of two men with a dog in front of a Kauri tree]. Auckland War Memorial Museum Tāmaki Paenga Hira. PH-2013-7-TC-B911-04. CC-BY 4.0.



Picnic with a fallen giant. 18 April 1977, Fletcher, T. Courtesy of The kauri Museum Collection

# NZ Arb Annual Conference 2017

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Left to right: Paul Johnson (USA), Brian French (USA), Duncan Slater (UK)

NZ Arb is excited to announce the names of three big international personalities that will speak at this year Annual Conference in Tauranga

**Keynote Speaker: Paul Johnson,**  
ISA & Trees are Key (USA)

Paul believes that "Trees Are Key" to healthier and happier communities. Currently the urban and community forestry coordinator for the Texas A&M Forest Service. Paul is an International Society of Arboriculture (ISA) Board Certified Master Arborist®, an ISA Certified Arborist Municipal Specialist®, and is Tree Risk Assessment Qualified. He is past chair of the Southern Group of State Foresters' Urban and Community Forestry Committee and is a member of the ISA Board of Directors. Paul is a Municipal Forestry Institute alumni, graduated from Oklahoma State University with a degree in forestry, and has been a radio talk show host, newspaper columnist, extension horticulturist, university adjunct instructor, and plant health care specialist

**International Speaker: Brian French,**  
Arboriculture International LLC (USA)

French founded Portland, Oregon-based tree care company, Arboriculture International LLC in 2013. He is a climbing ISA Certified Arborist and Qualified Tree Risk Assessor. Serving as coordinator for the Oregon Champion Tree Registry and Chair of the Portland Heritage Tree Program, he focuses on the preservation of significant, old trees and their associated flora and fauna. Brian facilitated various ongoing wildlife habitat projects including salmon habitat restoration, snag development, red tree vole surveys and developing urban wildlife guidelines. In Oregon, he is a rescue volunteer for organizations that rehabilitate injured birds of prey.

**International Speaker: Duncan Slater,**  
Senior Lecturer, Myerscough College (UK)

Duncan is the course tutor for the MSc in arboriculture and urban forestry, both on-campus and on-line at Myerscough College. As an academic, his PhD study was in the anatomy and biomechanical performance of branch junctions in trees, concentrating on the hazel (*Corylus avellana*) as a test specimen. Duncan has recently found the primary cause of bark-included junctions in trees, which is the result of 'natural bracing' - touching and rubbing branches that prevent a junction from experiencing normal loading. This finding informs important changes to tree surgery and tree assessment practices.

Tauranga  
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October 2017

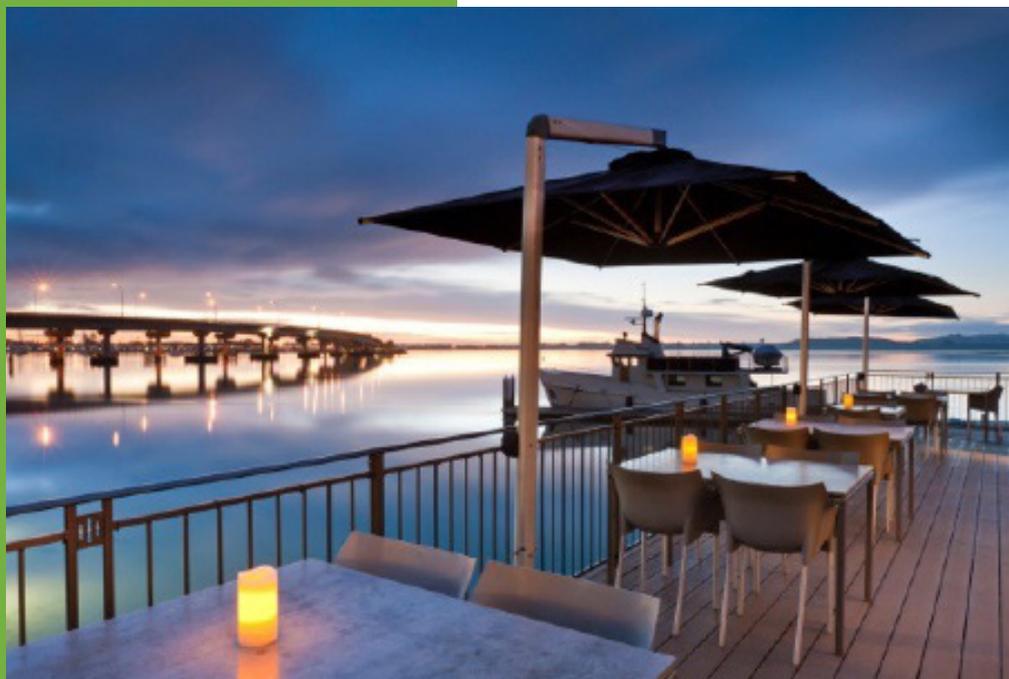
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**Brian French**

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# **TĀNE MAHUTA PUBLIC LECTURE**

“Valuable trees from home and abroad”

**Thursday 3rd November, 6:00pm - 7:00pm**  
**Venue Grand Millennium Auckland**

This lecture will concentrate on some trees that Mike Wilcox has worked with one way or another during his time in forestry, including urban forestry. Several of the trees to be mentioned have helped shape New Zealand and others have featured in Mike's overseas work.

This presentation is named after one of New Zealand's most significant trees – Tāne Mahuta (Lord of the Forest). According to Māori mythology, Tāne is the son of Ranginui the sky father and Papatuanuku the earth mother. Tāne was the child that tore his parent's parental embrace and once done set about clothing his mother in the forest we have today. All living creatures of the forest are regarded as Tāne's children

**The lecture series is open to the public – Gold coin donation with proceeds to the activities of the New Zealand Tree Register.**

**This seventh lecture, in an ongoing series, will be presented by:**

**Mike Wilcox**

Mike Wilcox is a retired forestry consultant and scientist. He is considerably involved in Auckland's botany, including being an Honorary Research Associate at the Auckland Museum, and a member of the Auckland Botanical Society, Friends of the Auckland Botanic Gardens, International Dendrology Society, Forest & Bird, Auckland Tree Council, and New Zealand Institute of Forestry. He also serves as a tree guide at Cornwall Park. His book, "Auckland's remarkable urban forest" published in 2012 gave an overview of the city's treescape, including heritage trees, and he has done more detailed assessments of the tree flora in many of Auckland's parks and campuses, including the Domain, Cornwall Park/One Tree Hill, Monte Cecilia, and Unitec, and also of Rangitoto Island. He recently compiled a full record of the plants in West Lynn Garden, New Lynn and an account of the native and naturalised plants in the Ahipara-Kaitaia area in Northland. Not content with forests of the land, he has also undertaken a survey of the flora Auckland's forests of the sea – the seaweeds.

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## **ARBORIST'S - TREESCAPE LIMITED WAIKATO REGION**

*Treescape is a fast growing, dynamic, professional company, with a clear focus on service delivery and customer satisfaction. We are the NZ market leader in the Vegetation Management & Maintenance industry.*

Treescape Ltd has three positions available in the Waikato Area. This position is for Arborists with experience in general arboriculture, power line clearance and site supervision.

The successful candidates will receive good remuneration packages and working conditions. If you are interested in the positions please send a letter of application or CV to:

Treescape Limited PO Box 28104  
Rototuna Hamilton 3256  
or  
email: hugov@treescape.co.nz



## **CLIMBER ARBORIST - AUSTRALIA, WA**

*North West Tree Services is a family owned and run business, who have operated in the Pilbara, Western Australia, for many years.*

We are seeking an experienced full time Arborist to join our professional and passionate team. The successful applicant will become part of a dynamic team based in Karratha and working throughout the Pilbara region of WA.

We offer our staff support, security, training and a safe working environment within a team that values each member's unique skills.

Wage Bracket: \$80k plus rental assistance

For further information please email Lewi at [lewi@nwtrees.net.au](mailto:lewi@nwtrees.net.au) or Noel at [noel@nwtrees.net.au](mailto:noel@nwtrees.net.au)  
Phone +61891442212

**For a full job description please see Job Vacancies on [www.nzarb.org](http://www.nzarb.org)**

## **CLIMBING ARBORIST - WHANGAREI**

Our client is looking for an experienced climbing arborist, with qualified level 4 experience working around electricity networks an advantage.

Our client is a large scale multi-utility service provider that has experienced continued and sustained growth, with operations across Australasia. You will be joining a diverse and inclusive workforce, with opportunity to develop your career.

Maintaining an electrical distribution network, our client sustains their own in house arborist team. Joining an established team of 8 you will support the upkeep and maintenance of the networks by keep lines and infrastructure clear of tree growth. Seeking a confident climbing arborist with good rigging skills and strong health and safety practices.

If you meet the criteria, we welcome your application including your CV and cover letter in Word format. Email applications to: [cath@hardhatrecruits.co.nz](mailto:cath@hardhatrecruits.co.nz)

**For a full job description please see Job Vacancies on [www.nzarb.org](http://www.nzarb.org)**

## **ARBORIST - HAMILTON CITY COUNCIL**

We're after a committed and enthusiastic parks or tree work professional with a recognised arboriculture qualification.

Salary Range: \$52K+  
Application closes 30 Sept 2016

**For a further information please see Job Vacancies on [www.nzarb.org](http://www.nzarb.org)**

## **DAVID JAMES TREE SERVICES - MARLBOROUGH**

David James Tree Services in Marlborough are looking for an experienced climber to join their team. They have a full time permanent position available, working alongside qualified arborists.

Visit the website to find out more about them:  
[www.davidjames.co.nz](http://www.davidjames.co.nz)

To apply for this position, send your CV to [david@davidjames.co.nz](mailto:david@davidjames.co.nz).

If you would like more information, call Tim on 021890803

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New Zealand **Arboricultural** Association Inc.

[www.nzarb.org.nz](http://www.nzarb.org.nz)  
[acs@nzarb.org.nz](mailto:acs@nzarb.org.nz)

## Hire an NZ Arb Approved Contractor

Look here first for quality, experience,  
professionalism and industry leaders

For over 25 years the New Zealand Arboricultural Association (NZArb) has been working with arborists to establish and improve the arboriculture industry in New Zealand. It has become New Zealand's largest professional association for arborists from all industry sectors including private companies, local government, consultants, utility line companies and training organisations.

# BizLog/Notices

## Successful Arborist Service Business - Waikato



- Specialised arborist services in the Waikato region
- Significant growth and profitability year on year
- Excellent, qualified employees
- Modern, well maintained equipment
- Good management structures & profitability tracking in place.
- Supportive handover process available

Would ideally suit somebody with an arborist qualification or similar background who can provide general management and marketing/relationship skills whilst relating to the specialised nature of the business.

Could be operated in its current format or as a good add-on to an existing business or even possibly operated under management by an investor. Turnover for the 2016 year was in excess of \$500k. Turnover for the 2015 year was in excess of \$500k. and EBPIDT is in excess of \$260k.

Strict confidentiality applies. Contact Rick for further information.

Reference: WK00018



**Broker:** Rick Johnson

**Phone:** 0800 225 999 / 021 991 485

**Email:** rickj@linkbusiness.co.nz



The authority on selling businesses

## CALENDAR

### 8 May Education & Training Committee Meeting

*Details to be advised*

*Dick Mexted - rick@franklintrees.co.nz*

**11 May Waikato/BOP Regional TCC**  
*Waikato University, Gate 2B, Knighton Rd, Hillcrest Hamilton. Andy Harrison - andrew.harrison@wintec.ac.nz*

**22 May Utility Arb Committee Meeting**  
*Wellington Airport, Wellington*  
*Mark Way - mway@opsl.co.nz*

**31 May Executive Committee Meeting**  
*Wellington Airport, Wellington*  
*Conrad Pattison - secretary@nzarb.org.nz*

**1 June Tree Matters edition 66 deadline**  
*Deadline for articles and advertising*  
*tree.matters@gmail.com*

## REGISTERED ISA CERTIFIED ARBORISTS IN NEW ZEALAND

### AUCKLAND

Erica Commers - Auckland  
Adrian Lamont - Pukekohe  
Peter Roche - Dargaville

### TASMAN-NELSON-MARLBOROUGH

David James - Blenheim

### OTAGO

Alvar Del Castillo De Aguinaga - Dunedin  
Jerry Lynch - Central Otago  
Mark Roberts - Dunedin  
Peter Waymouth - Dunedin

### WELLINGTON

Nicholas Arnold - Wellington  
Hamish Brown - Wellington  
Daniel James Cooper - Paraparaumu  
Murray Middleton - Wellington  
Tiago Miranda - Wellington  
Paul Smith - Wellington  
Kevin Squire - Wellington  
Richard Wanhill - Wellington

### CANTERBURY

Michael Winstanley - Christchurch

NOTE: This information is taken from the ISA website and is up-to-date at time of printing. If you are missing from the list or the location information is incorrect, please contact the ISA directly to ensure your information is accurate.

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Instant start, Low noise, SaveE™ mode, Brushless motor, High chain speed (20 m/s), Ergonomic handle, Flip-up oil tank cap.

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**\$1,377 incl Battery & Charger**  
(\$829 unit, \$299 BLi150 Battery, \$249 QC330 Charger)

## 536LiPT5 TELESCOPIC POLE SAW

36V - 25cm/10" bar - 5.5m reach - 6.2kg with Battery

Instant start, Low noise, SaveE™ mode, Brushless motor, Telescopic shaft, High chain speed (20 m/s), Ergonomic handle

NEW



**\$1,477 incl Battery & Charger**  
(\$929 unit, \$299 BLi150 Battery, \$249 QC330 Charger)

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