

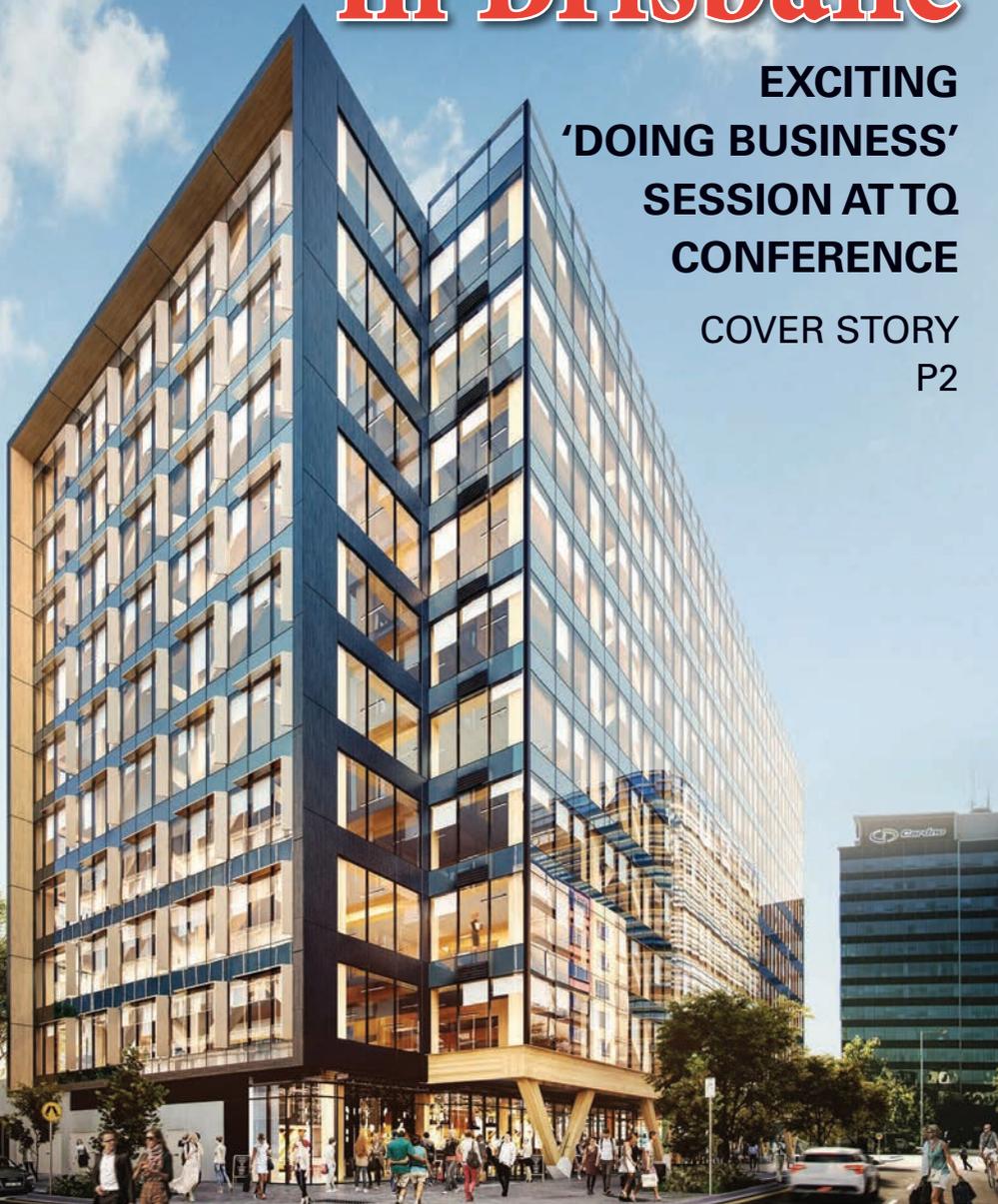
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Timber stands tall in Brisbane



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Conference delegates visit world's tallest timber office building site

Lendlease presentation feature of 'doing business in Queensland'

"IT'S like a wooden Lego structure," said Lendlease Building general manager Tony Orazio as the world's largest and tallest engineered timber office nears completion in Brisbane.

"The engineered timber structure, 25 King, will be one of the most exciting additions ever made to the city's skyline," he said.

The King Street project will be the final presentation at Timber Queensland's Doing Timber Business: Room to Grow conference in Brisbane on April 19. The conference is the main event in a round of activities from April 18 to 20, which includes a welcome dinner, forestry field tours, wood products research updates, and a social evening, hosted by the Institute of Foresters of Australia.

The visit to the Lendlease building – limited to 150 delegates – freshly follows earlier conference sessions on CLT engineering led by Gary Caulfield, CEO, Xlam, and mid-rise timber



Tony Orazio... prefabricated modules for each floor.

buildings and the developing Queensland market by Dr Alastair Woodard, program manager, Victorian WoodSolutions, and Stefan Gerber, mid-rise program manager, WoodSolutions Queensland.

Delegates visiting the King Street project will be addressed by Matthew Miller, Lendlease's senior development manager, commercial, urban regeneration, on the subject 'changing skylines: commercial timber buildings advantage'.



Matthew Miller... commercial timber buildings advantage.

The first delivery of CLT columns, beams and floor panels for the King Street project arrived in February and the construction is already beyond the third level.

At a height of almost 45 m, the ground plus a nine-storey Bates Smart-designed tower includes services provided by global engineering firm

Aurecon as well as three bespoke retail tenancies.

Owned by Impact Investment Group, the building will also be the future home of Aurecon, with the company committing to lease four of the nine office floors.

Tony Orazio said a key element of the structure was the use of prefabricated modules for each floor.

"These modules are pre-assembled at ground height and then lifted into place to form what looks like a wooden Lego structure," he said.

"The fascinating thing about building with timber is that its strength is akin to concrete and steel; it can be produced economically in a factory environment and most importantly boasts a plethora of sustainability benefits."

The project aims to earn a 6-star Green Star Design and As Built rating which will use 67% less electricity and 55% less potable water, and

“CHANGING SKYLINES; COMMERCIAL TIMBER ADVANTAGE

Cont P 3



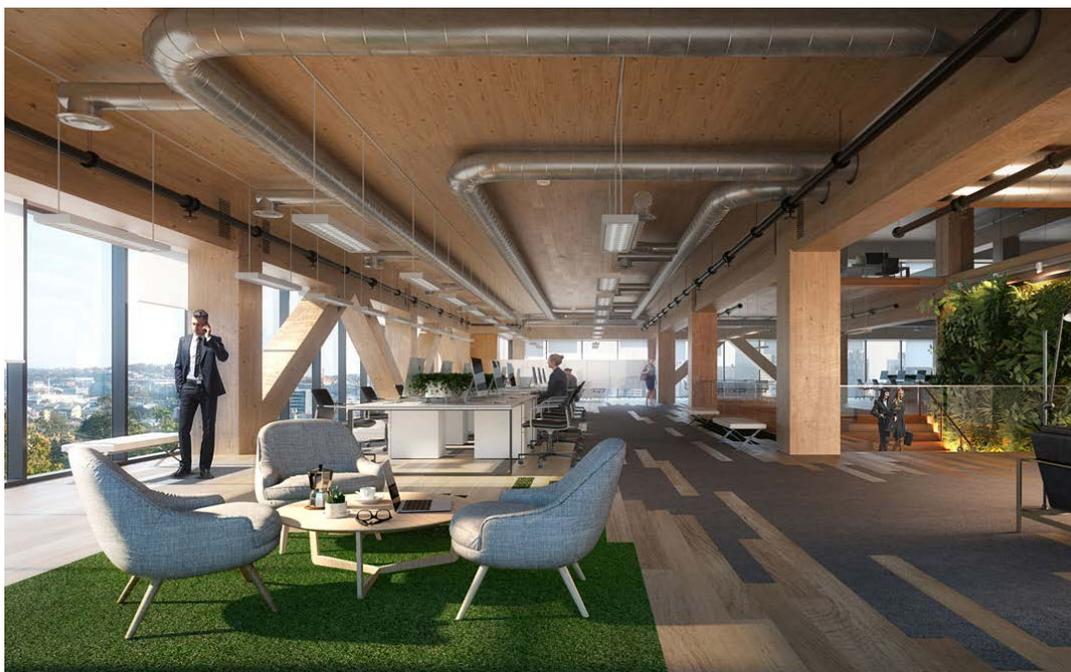
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Work space... impression of office style at the tall timber King Street building in Brisbane.

From P 2

is targeting a WELL Core and Shell rating.

King Street will see six storeys above ground by June-July and is due for

“KING STREET WILL SEE SIX STOREYS ABOVE GROUND BY MID-2018

completion in late 2018, with Lendlease developing and building the asset.

Lendlease will continue to work with its partners to lease the about 7900 sq m of remaining office space.

King Street facts: 3097 individual timber elements; 33 timber columns on each floor and 52 beams; CLT approx. 21,175 sq m or 4824 cub m of CLT walls and floors; 1415 sq m of glulam beam and columns); the spruce timber

used is an exceptionally fast-growing species found in Austria. The time it will take in the Austrian forests to grow back the timber used on 25 King is as little as six hours in total.

• **Timber Queensland conference – see notice Page 6.**

On the cover: Artist's impression of the completed King Street timber office project at Brisbane showgrounds.

(Image courtesy Lendlease)

Changes for private native forestry in NSW

THE NSW government's Local Land Services has taken responsibility for managing approvals and providing advice to landholders on private native forestry opportunities.

Minister for Lands and Forestry Paul Toole said the government was committed to enhancing LLS as a one-stop shop for a range of essential services for those on the land.

From April 30, landholders wishing to undertake native forestry operations will need to obtain permits

through LLS rather than the NSW Environment Protection Authority, which will maintain responsibility for compliance and enforcement.

“Private native forestry makes a substantial contribution to the supply mix for the NSW native timber sector and plays an important role in our vision for the NSW forestry industry,” Mr Toole said.

On the North Coast, timber from private native forests accounts for almost half of the overall supply of

native timber to the industry, and supports around 100 harvesting and haulage businesses.

“Private native forestry is a sustainable land management practice that provides landholders with an ongoing revenue stream and supports timber milling jobs,” Mr Toole said.

LLS will review the Private Native Forestry Codes of Practice later in 2018 to ensure they continue to support a sustainable and productive industry.



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Queensland's injury claims on the rise: it's time to get serious

INJURY claims from Queensland's sawmill employees have been rising, delivering business owners annual increases in WorkCover premiums.

Timber Queensland CEO Mick Stephens says despite the efforts of industry to work safely by implementing technology advances and education programs there is still plenty of work to be done.

"It's a no brainer that the large machinery designed to cut and process timber makes sawmills a hazardous place to work, sometimes the only difference between a traumatic injury and a scary warning can be a matter of inches," Mr Stephens said.



1/ Forest industry a hazardous place to work.
2/ Tammy Constant... industry injury claims increasing each year..

"We've dedicated time at our upcoming Doing Timber Business in Queensland conference for a Workplace Health & Safety workshop



featuring safety moment case studies enabling businesses to learn from each other."

The workshop is open to everyone involved in the industry and not just Timber Queensland members.

WorkCover Queensland's customer manager Tammy Constant says log sawmilling has the third highest industry rate in the whole WorkCover Queensland scheme in terms of costs and claim numbers.

"Log sawmilling sits at more than double the industry rate of every other timber activity in the cohort and concerningly, the industry rates have been increasing each year," she said.

WorkCover Queensland will be presenting at the Timber Queensland workshop on the reasons for the increases and

what businesses can do to turn it around.

"We hope to see many employers at the event who can start making a difference and work toward the important goal of lower injuries and cheaper premiums," Ms Constant said.

The WHS workshop will assist businesses prepare for Workplace Health and Safety Queensland's 'Safety in Sawmilling Campaign' taking place March to October during which WHSQ inspectors will be conduct workplace advisory and compliance assessments at log sawmilling workplaces.

Inspectors will initially provide advice and resources to help identify gaps in safety management systems, and risk and hazard identification. This will be followed about three months later by a worksite compliance assessment of log sawmilling processes.

“STILL PLENTY OF WORK TO BE DONE

WHSQ has developed self-assessment checklists to assist sawmilling workplaces to review their safety compliance prior to the inspector visits.

For checklists and more information visit the Workplace Health and Safety Queensland website.

To register for the Timber Queensland WHS workshop call (07) 3358 7900 or visit www.dointimberbusinessinql.com

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APRIL

10: WoodSolutions seminar – Library at the Dock, Docklands, Melbourne. ‘Biophilic Design: Bring Nature to Work’. 12.15pm - 5pm. Free for design and building professionals. RSVP jones@woodsolutions.com.au

18: Celebrating 100 years of forest products research in Queensland – Salisbury Research Facility, 50 Evans Road, Salisbury (Nettleton Cres Entrance). RSVP April 2 to cynthia.day@daf.qld.gov.au or phone Rob McGavin on 0412 341 832.

18: All-industry Queensland Timber Industry Pioneers Luncheon – Brisbane. 12 noon-3.30 PM. Venue to confirm. Email: cancon@bigpond.net.au or don@thoratimbers.com.au.

18-20: Timber Queensland’s 2nd Biennial State Conference – Royal International Convention Centre, Brisbane. ‘Doing Timber Business in Queensland: Room to Grow’. Visit www.doingtimberbusinessinql.com

JUNE

18-19: FRAME 2018 conference and exhibition – Park Hyatt Melbourne. Focus on timber offsite construction, expanding local and global markets for timber buildings and the digital future ahead in design, manufacture and

construction of timber frame multi-residential and mass timber commercial buildings. Contact Kevin Ezard, Frame Australia conference director, on 0419 538 638. Email: kevin@frameaustralia.com Visit www.frameaustralia.com

20: AFPA Parliamentary Friends of Forestry and Forest Industries Dinner – Mural Hall, Parliament House, Canberra. 6pm. Contact: (02) 6285 3833.

20-21: FIEA Woodflow 2018 – Melbourne, Australia.

26-27: FIEA Woodflow 2018 – Rotorua, NZ.

The objective, with 30-40% of delivered log costs being contributed by transport, is to improve efficiencies through the wood supply chain. It builds on the success of the HarvestTECH 2017 event.

Unique opportunity to learn about innovations being developed and employed to assist in harvest and transport planning, logistics and operations. Visit www.woodflow.events

20-22: WoodSolutions tour for building professionals – Melbourne, Wodonga, Sydney. The tour commences in Melbourne, travelling by coach to Wodonga to see XLAM’s CLT plant. Following this, flights to Sydney have been arranged as well as overnight accommodation, if required. The tour continues June 21 and 22 inspecting many buildings currently

being constructed or recently completed in and around Sydney. Buildings range from CLT timber apartments, offices, schools and community halls as well as a laminated veneer lumber industrial shed and a 6-storey timber-framed apartment building. Contact (02) 8920 0446 or info@tdansw.asn.au

JULY

4-7: AWISA 2018 – ICC Sydney Exhibition Centre, Darling Harbour Sydney.

Australia’s largest ever exhibition of woodworking technology and design at Sydney’s exciting new multi-level venue. Machinery, tooling, software, materials, fittings and services for the wood and panel processing industries. Visit www.awisa.com

12-14: Inaugural International Furniture Show Australia – International Convention Centre, Sydney.

Presentations by Australian retailers and wholesalers and opportunity to deal directly with global furniture manufacturers from countries such as China, India, Vietnam, Malaysia, Indonesia, Philippines and Pakistan. Excellent platform for Australian manufacturers to reach out to buyers from within Australia and New Zealand. Contact Australasian Furnishing Association at compliance@australianfurniture.org.au

AUGUST

8: FIEA Forest Industry Safety and Technology 2018 – Rotorua, NZ.

15: FIEA Forest Industry Safety and Technology 2018 – Melbourne, Australia.

Covering updates and developments in forest industry safety, as well as providing a space for sharing ideas on how people, culture, technologies and systems are used to improve the safety of workers. Visit www.forestsafety.events

SEPTEMBER

2-5: IFA and AFG conference – University House, Australian National University.

Titled ‘Forests for healthy cities, farms and people’. Title ‘Forests for healthy cities, farms and people’. It will be preceded by AFG’s pre-conference tour from Friday, August 31, to Sunday, September 2. Contact: (02) 6153 3044 or visit www.forestry.org.au

11-12: FIEA WoodTech 2018 – Melbourne, Australia.

18-19: FIEA Woodech 2018 – Rotorua, NZ.

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APRIL

10-12: Biomass and Bioenergy Conference – Sorocaba, Brazil.

Leading biomass bioenergy professionals, researchers, research centers, companies and universities to discuss the use and application of biomass.
See: www.bbcbrasil.com.br
Tel: +55 15 3229-6167.

MAY

1-2: 5th annual RISI-DANA International Forest Investment Conference – New York City.

See: www.risi.com/invest
Email: conferences@risi.com
Tel: + 866.271.8525, + 32.2.536.0748

8-10: Fifth Session of the Intergovernmental Technical Working Group on Forest Genetic Resources – Italy, FAO HQ, Rome.

Consider the situation and issues related to forest genetic resources, to advise and make recommendations, and to consider the progress made in implementing the work program. See: www.fao.org/forestry/86904/en/
Email: FO-ITWG-FGR@fao.org

21-25: International Conference on Ozone and Plant Ecosystems – Florence, Italy.

This

conference will allow all experts in the interactions between ozone and plant ecosystems to meet and discuss the state of the art and the strategies for continuous improvements. See: www.conference2018.wixsite.com/ozoneandplants
Email: ozoneandplants2018@gmail.com

JUNE

3-9: 3rd DANA China wood industry tour – China.

Manzhouli on Russia-China border, and Chongqing port and wood processing site visits, and to Chengdu Panda Breeding Centre. For further information, see: www.danaevents.co.nz
Email: admin@dana.co.nz,
Tel: + 647 3492764
Skype: [admin.dana1](https://www.skype.com/user/admin.dana1)

SEPTEMBER

17-21: RISI Tenth International Woodfibre Trade Conference – Durban, South Africa.

See: www.events.risiinfo.com/wood-fiber/
Email: conferences@risi.com,
Tel: + 866.271.8525, + 32.2.536.0748

25-26: FSC Asia Pacific Business Forum 2018 – Mumbai, India.

Email: info@au.fsc.org

OCTOBER

18-20: Timber Legality Research Symposium – University of Copenhagen, Copenhagen, Denmark.

To be held in association with the Forests & Livelihoods: Assessment, Research, and Engagement network. See: www.globaltimbertrackingnetwork.org/event/timber-legality-research-symposium
Email: cph@ifro.ku.dk

23-27: 4th International Congress on Planted Forests – Nanning, Guangxi, China.

Congress aims to investigate the contribution of planted forests to green development in the context of global changes. Topics will include the sustainability of planted forests in the context of changing climates and the future role of planted forests in bio-resources sustainability, environmental protection and green development. See: www.efiatlantic.efi.int/portal/events/
Email: christophe.orazio@efi.int

NOVEMBER

5-10: 54th Session of the International Tropical Timber Council and Sessions of the Associated Committees – Yokohama, Kanagawa, Japan.

ITTO Secretariat. See: www.itto.int/workshop_detail

Email: itto@itto.int
Tel: +81-45-223-1110

12-17: 2nd DANA 2-day Central America and Andes Forestry Sector Investment Conference – Cancun Mexico.

With 2-day optional pre-conference field trip to teak and eucalyptus plantations; a large modern MDF mill in Villahermosa region; and a 2- day optional post-conference tour to Mayan archaeological and recreational sites. For further information: www.danaevents.co.nz/2018mexico/

12-18: XI International Workshop on Uneven-aged Silviculture: Challenges for increasing adaptability – Valdivia, Chile.

Uneven-aged silviculture is attracting increased interest due to its positive effects upon carbon sequestration, biodiversity, landscapes, and in its ability to provide a range of goods and services from managed forest ecosystems. Do uneven-aged forests have better options for adaptation to these future changes?

See: www.uas.uach.cl/2018
Email: pdonosu@uach.cl

• Please send any events listings to johnh@timberandforestrynews.com

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Finest Australian timbers feature in Canberra's Sir John Monash Centre

\$25m national memorial captures story of ANZACS

WORK on the Sir John Monash Centre in Canberra is progressing well, ready for the official opening this month and a busy year of centenary commemorations.

The centre at the Australian National Memorial site has used Australian timbers from every state and territory throughout – wall linings, showcases, doors, the café and furniture – and demonstrates the finest of Australian woodworking.

The craftsmanship is by one of Australia's leading furniture designers, Grant Rollinson of Tharwa, near Canberra. The centre is being built by French contractors to the architectural design of Australian firm Cox Architects and the interpretive design of Convergence Associates.



Sir John Monash Centre... Australian timbers feature in wall linings, showcases, doors, the café and furniture.

“MATERIALS BASED ON THE NATURAL TERRAIN OF AUSTRALIA

Won through an international design competition, the Sir John Monash Centre is one of Cox's most significant projects. Though only small in stature, this project will represent the ANZAC experience on the Western Front.

The interpretive centre is set to join the lasting legacy of the current memorial by Sir Edwin Lutyens (opened in 1938) and is visited by some 7000 visitors every ANZAC Day and some projected 90,000 visitors annually.

building of such international significance involves much discussion and consultation to ensure that the intent and spirit of the original memorial isn't interfered with, yet is still complemented by a contemporary design

The process of designing a

Cont P 8

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From P 7

as Australian as the soldiers whose names are immortalised on its walls.

Consideration of the materials for the building is made based on the natural terrain of Australia and the aspect of the memorial itself for the visitor, from leading them through the galleries to exploring the gardens ensures that both the original memorial and the new interpretive centre go hand-in-hand as part of the visitor experience.

Underneath a 'floating field' roof (taking inspiration

“CENTRE BEGINS WITH TRENCH-LIKE ENTRANCE



General Sir John Monash... civil engineer and Australian military commander of World War 1 who commanded the 13th Infantry Brigade before the war and then, shortly after its outbreak, became commander of the 4th Brigade in Egypt, taking part in the Gallipoli campaign.

from old sacrifice and new technology to tell the story of the Anzacs on the Somme), the centre begins with a trench-like entrance into a foyer where a light shaft gives a glimpse of the tower above.

This project has the added challenge of international design standards, code requirements and language challenges, overcome with the benefit of French-

speaking Australian team members and relationships with local partners.

Wildbear Entertainment is putting the finishing touches on the centre's extensive film content while digital firm Transpire is on-site, installing the beacon technology, software and multimedia screens that will power the interpretive experience via an app on visitors' personal mobile devices.

The tapestry, 'Morning Star', has been on display at the Shrine of Remembrance in Melbourne, while two Aboriginal artists are about to present their works to the centre's project team.

Laurie Nilsen is producing a sculpture of two male emus, titled 'Goolburriss on Foreign Soil', while Ray Ken is painting the Anangu people's traditional story of the spear, titled 'Kulata Tjuta'.

THE DETAIL:

Key consultants: Arup, John Lampros Architects, Tim Williams Architects, Hector Abrahams Architects, Khephren Ingénierie, Incet Ingénierie Batiment, D'Paysage, Convergence Associates, GPS.

Cost: \$25 million.

Gross floor area: 2000 sq m.

Strong outlook for commercial construction

THE value of non-residential building approvals jumped by 14.8% in February, adding to growth of 18% over the previous 12 months, says the latest ABS data.

"It confirms the strongest outlook that commercial construction has enjoyed in years and that the long-awaited upturn in the sector

is under way," Master Builders national manager, economic and housing, Matthew Pollock said.

"Better still, the pipeline of non-residential construction projects is broad based, with the data showing strong growth across a wide range of sectors, including for new offices,

factories, warehouses, aged care facilities, education, entertainment and accommodation buildings," he said.

Master Builders expects non-residential building activity to grow by 14.6% in 2017-18, with the value of work done estimated at just over \$41.5 billion.

New dwelling approvals fell by 6% in February and are down by around 600 new dwellings compared to the same month last year. The fall in new starts is a good indicator that new housing commencements are likely to moderate towards the latter half of 2018.



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Shane Jones the \$3 billion minister

'I'm getting advice on whether a cabbage tree is a tree, given I need one billion of them'

NEW Zealand's Regional Development Minister Shane Jones used a speech to Rotorua's Chamber of Commerce on Wednesday to call for applications for funding from his \$1 billion-a-year Provincial Growth Fund.

"Do not delay," he urged. "Politicians live in time cycles and there are 29 odd months to the next election."

Jones said he wanted the fund to focus on areas where growth potential existed, and said he wanted to make applications for funding as easy as possible.

"I was hell-bent on assuring the process of allocating this funding was not bogged down in excessive red tape."

He said any application below \$20 million required sign off from just four ministers – himself, the Minister of Finance Grant Robertson, the Housing and Transport Minister Phil Twyford and Economic Development and Environment Minister David Parker.

Above \$20 million and full Cabinet approval is required.

Jones also outlined one type of project that won't be getting any cash – irrigation schemes.

"They have not led to an enhancement in water quality," he said. "A lot of the farmers don't like that, I've said see you in 2020."

On forestry, however, Jones was much more receptive.

He said Rotorua would be home to the stand-alone Ministry of Forestry, but he warned against expecting too large a jobs boost from the ministry alone.

"I want people planting trees, not pushing pens," he said.

"I don't want a bloated bureaucracy."

He refused to be drawn further, however, saying "until the Budget is passed I have

FUND MUST FOCUS ON AREAS WITH GROWN POTENTIAL



Shane Jones... right tree in the right place.

to do something Shane Jones isn't good at and that's shut up."

He also admitted his target of planting one billion trees was "fanciful" but argued aspirational targets were needed to boost a sector he described as "undervalued, underutilised but still with great capacity".

He said the mass planting would help New Zealand meet international climate change obligations and create jobs.

"Every single region is being looked at [for planting] but we're following the mantra the right tree, the right time, the right place," Jones outlined.

He also admitted a parallel boost in forestry job training would be needed to meet the ambitious targets.

"[I'm] not relying on Fijians and Tongans. I have resisted those requests to date. How can I as a New Zealand First politician not start with our own people?"

He added: "I'm getting advice on whether a cabbage tree is a tree, given I need a billion of them."

(Stuff NZ)

Local government forest conference

THE National Timber Councils Association, the peak body for local government areas with timber interests, will hold its annual conference on August 9 and 10 in Melbourne.

The theme for this year's conference is Timber - A National Asset.

Expected attendees include

local government CEOs, councillors, infrastructure managers, planners, economic development officers, as well as environmental professionals, timber and private sector industry representatives.

Contact Sandy Kam on 0498 487 844.

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Robyn, world chief of Hoo-Hoo, heads Down Under for JIV convention in WA

WHAT do glamorous actress Elizabeth Taylor and the daughter of an American Civil war soldier and lumberman have in common?

Nothing – except they were both ‘women of Hoo-Hoo’.

Hoo-Hoo International, the world-wide service order for the timber industry, formed in Arkansas, USA, in 1892, will be represented at a national conference in Bunbury, WA, next week.

Before her film career took off, Liz Taylor was judged Miss Hoo-Hoo at a 1940 convention in California, and Mary Anne Smith, born in Tennessee shortly before the Civil War (1861-1865), was in 1873 the first woman to join the organisation, given the



Thumbs up and heading Down Under... world Hoo-Hoo president Robyn Beckett Young surrounded by young new Hoo-Hoo members at a USA convention.

Hoo-Hoo number 2877.

It wasn't until 2014 that Mary O'Meara Moynihan of

Twin Cities Club, Minnesota, became the first woman elected world president (Grand Snark) of Hoo-Hoo, visiting Australia that year for the JIV national convention and visitings clubs in most states.

Her election opened the doors for more women to step into the role, and the second woman to be elected world president, Robyn Beckett Young, will be welcomed at the JIV Hoo-Hoo Convention in Bunbury from April 12 to 15, which will be hosted by Leschenaultia Timber Industry Club 274.

president Heather Gattone on the first round of club visits before and after the convention.

Robyn is also visiting clubs in New Zealand and Malaysia during her Down Under journey.

The Bunbury convention includes relaxed coach rides to tourist locations including the Fergusson Valley, a winery and lunch at a local brewery.

Contact convention convenor Lynne Davis on 0418 212 201.

Brisbane Hoo-Hoo Club 218 has organised a post-convention Sunshine State welcome for Robyn at the Brisbane Riverview Hotel, Kingsford Smith Drive, Hamilton, on Friday April 27.

Industry and Hoo-Hoo members and their partners are invited to this free function. Contact Alfred Chapple on (07) 3200 55632 email chapples2@bigpond.com or Alan Jones on 0419 754 681 or email alanjones@westnet.com.au



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“FAMILY OVER 90 YEARS IN THE LUMBER BUSINESS”

Robyn recently retired as a co-manager of Ulrich Lumber & Builders Supply, a family business for more than 90 years based in Warren, Michigan. This week she was welcomed in Sydney by JIV

Is heavy timber-brick a new trend in generating environmental wins?

KORKY KOROLUK

IT'S a lesson journalists learn when they're still very young. If you call something the biggest, tallest or heaviest, it won't be long before a reader is on the line to tell you about something that is bigger, taller or heavier.

Something similar also happens when you identify a new trend. You find three or four examples of something and you rush to inform readers of a new trend. Except every marketer worthy of the name has a newer, hotter trend that puts yours to shame.

All of this is to explain why new buildings framed with heavy timber may be a trend, or not.

We were told recently the first brick-and-beam buildings in Toronto and New York City are under way, with similar buildings planned or under construction in Minneapolis and Portland. These are buildings framed in laminated timber with exterior walls either of load-bearing brick or with a brick facade.

Even a quick glance at photographs of the interiors shows these are undeniably modern buildings with soaring ceilings over wide, open-plan spaces. But the earthiness of the wood, the texture of the brick, speaks more of the cosier buildings of a century ago.

In Toronto's Liberty Village, west of the city's downtown core, Quadrangle Architects is putting up a timber-framed building for developer Jeff Hull. Called simply 80 Atlantic, the building is among the



Fast build... the first brick-and-beam buildings in Toronto and New York City are under way.

first since Ontario's building code began permitting wood-framed structures as tall as six storeys, up from the previous limit of four storeys.

When people first began experimenting with laminated timber it was seen as an environmentally friendly way to use less steel. But architects and developers are finding these engineered wood products combined with brick instead of concrete, appeals to clients. That's why Hull said in an article he feels he can charge a premium for space in 80 Atlantic.

In New York City, two relatively low brick-and-beam buildings are going up in Brooklyn. These buildings, designed by Flank Architects, are framed with nail-laminated timber using wood harvested in Chibougamau, Quebec, then manufactured by Montreal firm Nordic Structures.

On that project, the

developers report the cost of timber and brick is equivalent to that of steel and concrete but say construction is faster because the timber is prefabricated offsite and fit together when it arrives on the jobsite.

“CONSTRUCTION INDUSTRY IS INTERESTED IN ALTERNATIVES”

On their website the developers promote the sustainability of their wood framing but admit it's the aesthetic of the wood that seems to be more appealing than the environmental concerns.

Architect Mick Walsdorf says the wood “is much more appealing than the drywall box we're all used to living and working in”.

In Minneapolis, a seven-storey office project was

completed last year using heavy timber framing. The developer there also cited lower costs and faster construction in the decision to embrace timber. In fact, the timber superstructure enclosing 16,700 sq m went up in just nine-and-a-half weeks.

And an affordable housing project called Framework is also using heavy timber. It is under construction in Portland, Oregon. It will go up 12 storeys and the developer says it will save an estimated 60% of carbon emissions when compared to a similar, but conventionally constructed building.

The manufacture of cement, concrete and steel is responsible for a lot of carbon emissions, so the construction industry has long been interested in possible alternatives. Trees absorb carbon dioxide as they grow and that carbon is embodied in the trees when they are harvested and shipped off to mills to be turned into glue-laminated timber, cross-laminated timber or nail-laminated timber.

That means less carbon dioxide in the air, which is a ‘win’ for the environment. Couple that with a shorter construction time and the appeal of heavy timber is undeniable.

Has all that led to a trend in office construction? Ask me again in a few years.

• *Korky Koroluk is an Ottawa-based freelance writer.*

(Daily Commercial News)

Accurate measurements critical to smarter on-site forestry operations

GROWING trees in today's forest-based industry is increasingly about precision. Substantial science effort and funding has gone into genetic tree improvement and other activities intended to grow trees to an ever-tightening specification, uniform size, and wood characteristics.

All this has required sophisticated effort in plantation and forest sampling design, measurement technology and data analysis. This is an essential component of the modern forestry equation is backed by robust science, practice and equipment.

With forest menstruation research, including remote sensing technology innovation rapidly expanding, Australia is well served by having its own specialist forestry equipment provider able to offer technical advice and a complete range of both basic and sophisticated measurement equipment, and also a wide range of other forestry equipment together with basic tools.

Established in 2002,



Plantation assessment... essential component of the modern forestry operations.

Forestry Tools at Roseville, NSW, has grown to be an essential and valued resource for foresters and other professionals. Now in its 16th year of operations, the company's product range has continued to expand.

Stock has increased to more than 1800 products – from the latest digital Swedish manufactured Vertex IV hypsometer for quick and easy tree height and distance

measurement, through the tried and tested foresters' friend the good old Abney Level to a complete range of personal safety equipment to hand-held tools.

Managing director Chris

Smith said Forestry Tools was a one-stop shop for the industry and also offered online purchasing and nationwide delivery arrangements.

He said the company endeavoured to maintain good stock levels of all items listed on the Forestry Tools website and catalogue.

For additional information visit www.forestrytools.com.au

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Taylers Timber raises the stakes for growth, jobs in the Gippsland

FOR Taylers Timber in Victoria's west Gippsland, 2017 was a bumper year in driving growth and jobs for the local region and meeting the strong growing demand for timber building products in the state.

Last year, Taylers Timber provided 480,000 timber stakes to an almond plantation on the Murray River during a four-month period. Importantly, the mill was also able to employ 12 people for the life of the project.

The project helped the business grow by 5% during the year, further securing the jobs of the 10 permanent full-time staff at the mill, all of whom are local to the Baw Baw Shire and Latrobe Valley.

The 4000 cub m of saw logs that go through the mill are used to create fence posts, rails, and gluts for steel production, while the lower grade timber is used for pallets. All the mill's sawdust and woodchips waste go to dairy and chicken farms and horse stables.

However, it is garden stakes that make up 50% of the mill's production. Last year Taylers supplied 140,000 tree stakes for coal mine offset projects in Gunnedah, NSW, and one million tree guard stakes to help re-vegetate land

beside highways and for other environmental projects.

David Tayler said demand for his mill's timber products had been growing every year.

"These large stakes projects, like the Murray and Gunnedah projects we completed last year, have really helped to grow our business. Since the late 1990s, when we started the business, the demand for our timber products has just kept increasing," Mr Tayler said.

"In the current economic climate, it is difficult for a small rural business to attract money in large volumes out of Melbourne to spend in the local community, but this business is doing just that."

Taylers Timber mill is supplied with timber by VicForests and the mill makes sure everything is used.

It is also a positive thought that by utilising low grade saw logs from VicForests, Taylers Timber can turn 15 trees into tree stakes that will plant 30,000 new trees.

**“DEMAND FOR
TIMBER IS
GROWING
EVERY YEAR**

VicForests commercial timber manager Bruce McTavish says supplying businesses like Taylers Timber results in positive outcomes for the local community.

"This is just one example of the value of the native timber industry in Victoria, and the growing demand for our quality timber products," he said.

"Not only is this growth good for the mill and VicForests, it also benefits Victoria's regional communities, like Hill End and the Baw Baw shire. We're pleased to be able to be part of this good news story."

VicForests is certified by Responsible Wood, which is endorsed by PEFC, the world's

largest forest certification scheme.

The native timber industry in Victoria supports more than 2,500 direct jobs and many more downstream. VicForests, a native timber harvesting organisation, regrows all harvested areas with the same type of forest that was originally there and only harvests around 0.04% of the state's forests each year.

This small percentage of harvesting is vital to many regional Victorian communities that rely on the native timber industry.

The native timber industry contributes hundreds of millions of dollars and thousands of jobs to regional Victoria regional each year.

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Yes, it's a free welcome dinner!

Industry and Hoo-Hoo members and partners are invited to a special reception at the Brisbane Riverview Hotel, corner Kingsford Smith Dr and Hunt St, Hamilton (formerly Powerhouse) on Friday, April 27, to welcome visiting world president and Grand Snark of Hoo-Hoo

International Robyn Beckett Young from Michigan, USA.

Complimentary dinner starts at 5.59 pm for 6.29 pm. RSVP April 23 to Alfred Chapple on (07) 3200 55632 or email chapples2@bigpond.com or Alan Jones on 0419 754 681 or email alanjones@westnet.com.au

Canadian scientists study future of province's most treasured tree

Answering some pressing questions about *Thuja plicata*

RESEARCH scientist at the Canadian Wood Fibre Centre of Natural Resources Cosmin Filipescu is leading a series of projects to answer key questions about the future of British Columbia's western red cedar (*Thuja plicata*), one of the province's most valued trees.

Western red cedar is among the most widespread trees in the Pacific Northwest and is associated with Douglas fir and western hemlock in most places where it grows. A versatile timber, it is commonly used for applications such as cladding, windows and joinery.

Although western red cedar has served a multitude of uses to society over thousands of years, scientists know little about it.

And that's the main reason a multi-year research project is looking at the species from a range of viewpoints covering economics, ecology, diseases, quality and value of forest products, and climate change.

Recently published, 'An Economic Assessment of the Western Red Cedar Industry in British Columbia' shows the cedar is a \$1.3 billion industry, providing 1900 jobs



Unravelling the mysteries... new forest science focuses on western red cedar.

across BC. It is also important for its cultural value to First Nations and for its ecological value as wildlife habitat and for biodiversity.

Key findings:

- British Columbia has the world's largest stock of standing western red cedar and is the world's largest producer of red cedar products.
- Western red cedar represented 7% of British Columbia's 2014 timber harvest volume and 18% of the coastal harvest.
- Annual harvest levels

have fallen since 1995 across all log grades.

- Western red cedar generates more than \$US 1 billion annually and lumber exports dominate revenues, generating over \$750 million.
- More than 80% of red cedar lumber, shake and shingle and siding exports go to the US.
- Nearly 30% of secondary manufacturing firms are heavily reliant on western red cedar.
- Secondary manufacturing use of red cedar has declined since 1997 and, as of 2012,

has not seen a significant recovery.

The research goal is to learn how to manage western red cedar as a long-term, sustainable, high quality resource for future generations. Researchers want to know:

- Can WRC be grown to be naturally resistant to animal browsing and diseases?
 - Are second-growth trees providing the same quality of wood and disease resistance as their forebears?
 - What environmental conditions will red cedar need to adapt to in the future?
 - What role does red cedar play in diversifying overseas markets for Canadian forest products?
 - What are the best management approaches to promote regeneration and growth of red cedar?
- A cedar research working group, brings together First Nations, industry, provincial and federal government, universities and other research groups to collaborate and share information about this valuable resource.

Visit the Canadian Wood Fibre Centre at www.nrcc.gc.ca/forests/research-centres/cwfc/13457

Dermatologists claim by-product will keep your scalp clean

WHILE scientists scratch their heads over questions about western red cedar, they might consider using a by-product, hydrosol, for itchy scalps.

This is used primarily for topical applications and is

added to shampoos (50/50) as a treatment for scalp itch, dandruff, and to add lustre to damaged hair. It may be used full strength in a spray bottle to detangle hair, as well as a dandruff treatment, say dermatologists. The hydrosol

can also be sprayed directly on a pet's fur to deter fleas. At full strength it can be applied to dermatitis, allergic rashes, cold sores, inflamed acne and other skin conditions.

Hydrosol is also claimed

to stimulate the respiratory and lymphatic systems when used in baths, saunas and humidifiers in winter.

Ingredients: Fresh western red cedar needles, steam distilled.

Blast tests show CLT can take the heat

US military considers mass timber in construction projects

AT the US Department of Agriculture's forest products laboratory, researchers sometimes get a little destructive. They bend and break wood samples of all sizes, and even shoot lumber out of a cannon at 160 km an hour.

But explosions? That's a bit out of their wheelhouse. Not that wood can't handle it – particularly when it's used in engineered products like cross-laminated timber, which the US Forest Services has studied from many angles, including fire performance, use in earthquake-prone regions, and the effects of moisture on CLT.

Recent tests of CLT structures show just how tough this material can be.



Strong resistance... US Forest Service scientists, staff, and partners prepare to test the integrity of CLT structures in a series of blast tests.

Photo: Air Force Civil Engineering Centre, Tyndall Air Force Base

In 2016, the Forest Service wood innovations program initiated live blast testing of CLT by Woodworks at Tyndall Air Force Base in Panama City, Florida. Based

“ INCREASING
MARKET SHARE FOR
WOOD-BASED
MATERIALS

on the successful results of that testing, the forest products lab, in cooperation with Woodworks and the Softwood Lumber Board, led a second round of live blast testing in last year.

The objective of these studies was to demonstrate the capability of CLT structures to resist airblast loads, thereby allowing the military to incorporate mass timber materials like CLT into their construction projects. The structures survived blasts with charges large enough to potentially cause lethal injuries.

Tests were performed on three structures two storeys high, each made of

Cont P 16

Snap to it. Photo contest will be forest experience.

Responsible Wood is again promoting a nation-wide photo contest, aimed at further raising awareness of the importance of sustainable forest management and certification. The contest theme – 'experience forests, experience PEFC' – enables participants to submit photos that fit this theme. This could embrace many topics, from forest landscapes to individual trees and plants, from harvesters to families hiking in the woods, from indigenous people to rural village life, from wooden buildings to photos of PEFC/Responsible Wood-labelled products.

The winning Australian entry in the PEFC contest will receive a \$500 gift voucher. The competition runs from Earth Day (April 22) to World Environment Day (June 5) and closes on June 5.

Responsible Wood opens the contest this month. Entries can be submitted electronically or by postal mail. All photos will remain with Responsible Wood for future use and promotion of Australian forest management.

Entries (any number) can be uploaded to Instagram **#RW2018PhotoContest** or emailed to PEFC Photo Contest at sdorries@responsiblewood.org.au or post to Responsible Wood, PO Box 786, New Farm, Qld 4005. Tel: (07) 3359 1758.



Responsible
Wood 

From P 15

different grades of CLT, and all including window and door openings. The first set of tests were conducted under the structures' own self-weight. For the second set, a load was applied to simulate the conditions associated with a five-storey residential or office building. For some tests, variables in CLT panels and fasteners were altered.

The tests covered a spectrum of blast loads, and the results are promising. After the first set of tests, all structures remained intact, and the levels of damage were acceptable and matched what models predicted.

“ OPENING UP NEW MARKETS FOR WOOD PRODUCTS ”



What a blast... all three structures remained standing after the testing – even tests designed to take the structures well beyond their design intent.
Photo: Air Force Civil Engineering Centre, Tyndall Air Force Base

All three structures remained standing after the second tests as well, even after the last blast that was intended to take the structures well beyond their design intent. Panel rupture was expected and observed, but the buildings remained intact and safe to enter.

The results of these studies will be used to further expand the use of wood solutions for Department of Defence applications and other blast-resistant construction.

The information gathered will allow engineers to use mass timber solutions where they were not previously permitted, potentially increasing market share for wood-based materials.

The Forest Service plays a lead role in researching and promoting CLT in the US to open up new markets for wood products. Using smaller wood that might serve as fuel for wildfires as building materials helps reduce the damage posed by forest fires

while bringing jobs back to rural communities.

(US Department of Agriculture)

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Fibre production costs higher, but profits up for pulp manufacturers

MODEST increases in wood fibre costs and a substantial rise in market pulp prices have improved profitability for many market pulp manufacturers worldwide during the second half of 2017.

Pulp manufacturers in many countries have seen their wood fibre costs go up during 2017, with the biggest increases in US dollar terms occurring in western North America, Europe, Russia and Australia, says the Wood Resource Quarterly

In the 4Q/17, both the global softwood and hardwood fibre price indices reached their highest levels in over a year. However, market pulp prices increased even faster, resulting in a period of



Pulp fact...
market prices trend has resulted in increased earnings by the pulp industry.

increased earnings by the pulp industry.

The Global Softwood Fibre Price Index increased for the third consecutive quarter to reach \$89.08/odmt in the 4Q/17, 4% higher than in the same quarter in 2016.

Hardwood fibre prices have also trended upwards over the past year, with the Global

Hardwood Fibre Price Index reaching its highest level in almost three years during the 4Q/17. In US dollar terms, hardwood fibre prices have

“ FIBRE PRICES REACHED THEIR HIGHEST LEVEL IN OVER A YEAR

gone up the most in

Europe, Russia and Indonesia during 2017.

The only region that has experienced a decline in wood fibre costs has been the US South, where hardwood pulp log prices were 2.3% lower in the 4Q/17 than in the 4Q/16.

Wood fibre costs remain the single largest cost component in the manufacture of wood pulp, ranging between 40-60% of the total cash costs, depending on region and pulp grade.

The wood fibre costs as a percentage of the price of Northern Bleached Softwood Kraft market pulp have been on a downward trajectory over the past eight years.



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- Outlook for logs, wood chips, lumber & wood panels, & pulp

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Book launch throws light on role of forests in carbon neutral future

A BOOK launch will be a further feature of the upcoming high-profile Queensland timber conference in Brisbane this month.

'By the Light of the Sun: Trees, Wood, photosynthesis and Climate Change, written by John Halkett, will be launched at Timber Queensland's Doing Timber Business in Queensland conference on April 19.

This is John's sixth book and includes a foreword by Dr René Castro Salazar, assistant director-general for the relatively new Climate, Biodiversity, Land and Water Department, Food and Agricultural Organisation (FAO) of the United Nations.

Dr Castro Salazar held ministerial positions in Costa Rica between 1994 and 2014 as Minister of National Resources, Minister of Foreign Affairs and Minister of Environment and Energy. He has also been a fellow at Harvard University.

Dr Salazar says there is absolutely no doubt that climate change is the biggest challenge facing the continuing survival

of humanity.

"It is a topic that consumes a substantial amount of my professional life and personal thoughts," he says, "Also in past roles, both as a minister in the Costa Rican government and as a fellow at Harvard University, I put energy into policies, practices and arguments related to climate change abatement."

He says forests are at the heart of a transition to low-carbon economies. Forests and wood products have a key role in climate change mitigation and adaptation through the potential for wider use of wood products to displace more fossil fuel intense products. Indeed, a virtuous cycle can be enacted in which forests increase removals of carbon from the atmosphere, while sustainable forest management and wood products contribute to enhanced livelihoods and a lower carbon footprint.

“MANAGING NATURAL FOREST SYSTEMS



René Castro Salazar... forests and wood products have a key role in climate change mitigation.

Dr Salazar says promoting wood as a renewable energy source may seem counter-intuitive, but almost 2 billion cub m of wood – more than half the world's wood output – is already used for that purpose, highlighting the potential gains from more sustainable forest management.

John says the aim of his new book is to detail how to better harness the power of the products of photosynthesis to offset adverse climate change.

"Specifically this book asserts that trees and forests, plus wood products, will be even more important in assisting to tackle climate

change, and in contributing to a sustainable energy and carbon neutral future."

The book advocates the conservation and management of natural forest systems and tree plantations as central to a sustainable and low carbon future for humanity. It also argues for the wider utilisation of wood-based products that use less energy in their manufacture, store carbon, and have the capability to restrict the use of high energy materials, such as steel and aluminium.

"As climate change impacts bite, sea levels rise, and volatile weather events threaten to overrun humanity's existence, trees, forests and wood products are and will continue to be even more important," John says.

The book launch will take place at the Timber Queensland cocktail function at 5 pm on April 19.

Advanced copies of 'By the Light of the Sun: Trees, Wood, Photosynthesis and Climate Change' can be ordered at: www.connorcourtpublishing.com.au

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European style: we all benefit from copy-cat designs of Toyota and Kia

RELATIONS between Japan and Korea have been characterised by cultural exchange, trade, war, and political contact for more than 1500 years – all of which underlie their opposing – and competitive – stance, even today.

I remember a TV ad a few years ago: a bunch of humbled Japanese executives were sitting around a desk strewn with blueprints and diagrams. Three seconds of silence and then their ichiban bellows: "What going on at Kia?"

What indeed. Clever marketing from Kia Motor Company. But then there's the equally clever and funny Utube ads for the Toyota Yaris.

Since World War 2, Japan's inscrutable ability to perfectly imitate has now been matched by the copycats of Korea.

But for Asian auto companies such as Toyota, Nissen, Kia, SsangYong and others, the inspiration to copy has been coached by European designs.

For Kia, the European 'look' has been embellished by German Peter Schreyer, chief designer at Hyundai-Kia, widely known for his style contributions to the Audi TT. His right hand man is fellow German Luc Donckerwolke, former design director of Volkswagen, which sells passenger cars under the Audi, Bentley, Bugatti, Lamborghini and Porsche marques.

For Toyota in Japan it's Yukihiro Yaguchi, the brilliant engineer responsible for the design of the first-generation Lexus; in Australia it's Nicolas Hogios who heads a 25-man team tasked with developing



1

- 1/ *Rugged elegance... Toyota's new Prado VX.*
- 2/ *Inside the VX... sports leather seat trim and a 14-speaker sound system.*
- 3/ *European look... Kia's new diesel GT Line Sportage.*



2



3

with a bunch of extras – twin exhaust, push-button start, LED tail lights, panoramic sunroof and ice chrome finish.

The 2-litre, four-cylinder

cars for the Australian and Asia-Pacific region.

Driving Toyota's 2018 Toyota Prado VX and Kia's new diesel GT Line Sportage was not apples to apples, more horses for courses as we got down to the core of these two splendid SUV models.

The Sportage comes in petrol or diesel, and in two or four-wheel drive and they all carry a Kia seven-year warranty. Weighing in at 1733kg (diesel engines are heavier than petrol engines), it's GT Line is still lively and

it weight up steep slopes. A drive-mode button offers a few different settings including 'sport', which sharpens throttle response.

With locally-tuned suspension cushioning the worst broken roads and potholes, the GT Line shines in the rough and delivers solid body control.

Kia's claimed 6.8 litres for every 100km to be relatively accurate, too.

The 2018 Toyota Prado VX, available only as an automatic, jumps in price above the GXL auto at \$73,990 (plus on-road), which is still around \$911 less than 2017.

The VX brings additional items such as 18-in. alloy wheels, panoramic/surround-view camera monitor with low-speed forward view setting, ventilated front seats, heated seats front and rear, a cool box between the front seats and LED fog lamps. It also sports leather seat trim, and a 14-speaker JBL sound system.

That's over and above lane departure warning, a pre-collision safety system with pedestrian detection, auto high-beam lights and automatic cruise control. Also standard are privacy glass, roof rails, side steps, a leather-lined steering wheel and a rear differential lock.

The VX is automatic only, powered by a 2.8-litre four-cylinder turbo-diesel engine with 130kW of power and 450Nm of torque. It has permanent four-wheel-drive, with 4H and 4L drive modes. Fuel use is rated at 8.0L/100km.

In a few words ... rugged elegance.

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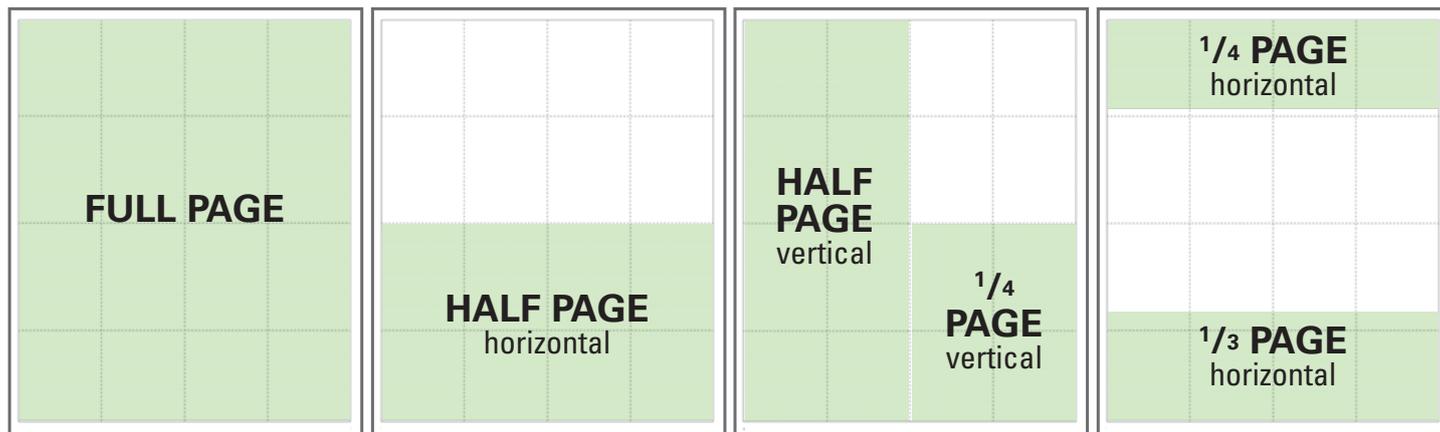
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& FORESTRY *e*NEWS

Now in its 11th year, Timber&Forestry enews has grown to be the Number 1 online weekly news journal for the forest and forest products industries – across Australia, New Zealand and internationally.

It is read by timber merchants, wholesalers, sawmillers, wood processors, foresters, contractors, CEOs and members of national and state organisations and associations, builders, specifiers, architects, state and federal government ministers, officials, and regional government.

* Publishers' claim. The publication draws on a new data-base vault of more than 14,500 emails – a number that grows weekly.

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THIRD PAGE: \$215

Horizontal • 73mmH x 190mmW

PAGE 1 Front cover strip: Contract booking

Horizontal • 30mmH x 190mmW

PAGE 1 Front cover module: Contract booking

Horizontal • 45mmH x 49.5mmW

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