



THE LINK

Showcasing the successes, innovation and developments in the Fencing, Gate and Wire Industries

Vater Corporation

Since its foundation in 1960 in Saddleworth, South Australia, Vater Corporation (Aust) Pty Ltd has grown into one of South Australia's leading privately owned companies, and now employs more than 120 staff across 5 states.

The past 59 years have seen Lance Vater and his team build Vater Hardware into industry leaders through ongoing research, design, development and innovation. Vater's vision for excellence has been recognised on many occasions, most recently with Elgate's Multi-Purpose Fitting System receiving the Australian Design Award for Engineering.

The Adelaide-based manufacturing plant and equipment has been specifically designed and constructed utilising the company's own engineers, and they also have their own R&D department continually testing components and final products for peace of mind in safety, ease of installation and durability.

Stringent quality control is a fundamental feature of Elgate's manufacturing process. Australian Quality Endorsed parent company, Vater Hardware, are proud of the fact that not only has it achieved ISO 9001 accreditation, it also assists the industry as a whole by testing substandard fittings in their own onsite lab. With failures being experienced in the Temporary Fencing industry, test results show Australian-made temporary fence fittings with pressed indents are far superior to many of the plain imported fittings.

In a rapidly evolving world where safety, efficiency, automation, technology and communication have become serious issues, Vater Hardware continues to dedicate itself to research, design, development and innovation to meet the demands of the current climate.

For more information on Vater Hardware Australia please visit www.vaterhardware.com or get in contact with your local key account manager at sales@vaterhardware.com



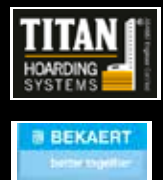
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 Titan Hoarding Systems
 Totem Fencing
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 Victorian Temporary Fencing



NOTES FROM THE PRESIDENT

One of my boys had to learn a poem for recital in grade 6 recently and he asked me to help him find something that was more than 12 lines but not too long so he could remember it. I searched the internet for a number of hours and eventually landed on this. Many of you would have seen it before, maybe when you were at school. I have shared it with many people since as it's such a great message to come back to.

I hope that the Winter season brings great success to you and your business.

Charles Johnstone

“Thinking” by Walter D. Wintle

*If you think you are beaten, you are
 If you think you dare not, you don't
 If you'd like to win, but you think you can't
 It is almost a cinch- you won't*

*If you think you'll lose, you've lost
 For out in this world we find
 Success begins with a fellow's will
 It's all in the state of mind*

*If you think you're outclassed, you are
 You've got to think high to rise
 You've got to be sure of yourself before
 You can ever win the prize*

*Life's battles don't always go
 To the stronger or faster man
 But sooner or later the man who wins
 Is the one who thinks he can!*



AWIA DIRECTOR REPORT

May 2019 has been a big month with our conference in Geelong just shading out the federal election for importance. There was no surprise about the conference but I think Australians were largely surprised on May 18th, especially those in the media. Scott Morrison ran a much more effective campaign than Malcolm Turnbull's in 2016, and spoke to voters about the issues that affect them rather than those not central to their concerns. It

is a simple concept and one that all business owners should heed - keep your marketing on message, and listen closely to your customers.

We can only hope that some stability now in the Federal Government will lead to a sensible and realistic energy policy that might at least stop, if not reverse, the rapidly escalating price of energy to manufacturers throughout the nation. Already we have seen Dow Chemicals close down their Melbourne factory after 40 years in operation, largely due to rising gas prices, and we can all attest to the sharp increases evident in electricity prices. It beggars belief that a country so naturally blessed with the raw materials required to produce energy, (including renewables like solar, wind and tidal), can put itself in a position where its energy generation is unreliable and expensive. I encourage you all to write to your local MP to ensure your priorities for government action are known.

National Manufacturing Week (NMW 2019) was held in Melbourne and attracted around 11,000 visitors over its four days. The emphasis in this year's show was productivity increases and improvements to OH&S. The show was also used by the Australian Manufacturing Growth Centre to launch its Manufacturing Academy. Designed to deliver exclusive industry insights on how to increase commercialisation and capitalise on innovation, the Manufacturing Academy offers industry over 500 pages of in-depth research, interviews with more than 20 Australian manufacturers, and over 50 hours of video. AWIA spring members Better Springs and Jubilee Springs continued to fly the flag as two of the more than 200 exhibitors at NMW 2019, and reported good activity at the show.

Richard Newbigin

STATE REPORTS

VICTORIA REPORT



The Temporary Fencing Association intends to arrange a special briefing of interested companies involved in the temporary fencing industry to table and discuss likely impacts to the temporary fencing and hoarding industry resulting

from the adoption of the revised Temporary Fencing and Hoarding Australian standard AS4687.

Standards Australia is currently finalising “for public comment” the revised draft and it is hoped this will be released in the next few weeks. The new standard has been expanded to now include two new sections, one specifying temporary pool fencing requirements and a section on crowd control barriers. The sections on temporary fencing and hoardings have also been extensively expanded. New annexes will provide comprehensive instructions on testing for all these fencing products.

Should you wish to attend the special briefing please email brian@wireassociation.com.au

WESTERN AUSTRALIA REPORT



It has been confirmed that CSA Fencing bought the two Wafios chain link machines sold as part of the liquidation of AWIA member company, JSB Fencing. Steve Allen, and his son Clint, who own CSA Fencing will be known to AWIA members from their previous venture, Diamond

Security Fencing. Unfortunately Diamond Security Fencing was also placed in liquidation three years ago following the mining collapse, but it is encouraging that Steve’s knowledge of fencing has not been lost to the industry.

QUEENSLAND REPORT



AFIA Secretary Brian Mullarvey has scheduled a visit to Brisbane in late June 2019 to conduct a series of focus group meetings with industrial gate fabricators and gate automation specialists. Input will be sought on the development of

sections for the proposed Code of Practice for the Design, Manufacture and Installation of Metal Sliding gates. The opportunity will exist for members to view sections of the draft already written and make further additions and comments.

NEW SOUTH WALES REPORT



A response to the licensing of individuals and companies involved in the ‘security fencing’ industry continues to be high on the Association’s agenda. The licensing falls under the jurisdiction of the Security Licensing and Enforcement Directorate (SLED), a division of the NSW Police Force. Although there do not seem to have been any prosecutions of any unlicensed persons in the fencing industry, it would appear that SLED is trying to better learn about the structure of the industry, so it may evaluate what type of licence applies throughout the supply chain. The AWIA does not believe that the bulk of fencing companies should be affected by the licensing legislation, and is formulating a response to higher levels of government. It will continue to work with other industry partners to ensure its message is heard in the right places. Please contact Richard Newbigin (richard@wireassociation.com.au) if you feel you can assist.

SOUTH AUSTRALIA REPORT



In March 2019 members of the South Australian Gate fabrication working group met to discuss and expand the points already identified for the “Structural & Mechanical” as well as the “Installation” sections listed in the proposed draft Code of Practice for the Design Manufacture and Installation of Sliding Gates. Representatives from Secure Fences & Fabrication, Fencing World and Shean Steel attended the working group meeting at Downee’s office in Adelaide. The Association is appreciative to Grant Murdoch of Downee for arranging the meeting.

NEW ZEALAND REPORT



After several false starts, Director/ Secretary Richard Newbigin will visit Auckland on 21 June, and hopes to catch up with several New Zealand (NZ) members while he is there. On the agenda is discussion about holding an Association conference in New Zealand either later this year or in 2020. It has been several years since the AWIA held a conference outside Australia, and although a fair bit more work is involved holding an international conference, the committee regards geographic rotation of the Association’s events to be highly important. Any NZ members who would like to be involved in these discussions should contact Richard directly, (richard@wireassociation.com.au).

APPOINTMENTS



**David Veteha,
Business Manager,
ARC Fences**



David Veteha has recently been appointed as ARC Fences-Business Manager.

David's working background has been in distribution and Sales & Marketing. Graduating from Swinburne University in 2000, he was first employed in the Automotive Electronics industry, then more recently as Australian National Sales and Marketing Manager for a major US filtration manufacturer.

David's outside interests involve family, marathon running and cycling. He says he possesses a keen fitness-type personality as witnessed by his running his 10th Melbourne Marathon this year.

In terms of ARC Fences he says "I will be actively developing the ARC Fences brand and ensuring that it is front/centre on the B2C market, in addition to our customer base."

ARC is celebrating its century of operation next year and David says they have an amazing story to tell.

David's Contact info: email@arcfences.com.au

NEW MEMBER PROFILES

We would like to welcome All Hills Fencing and D&D Technologies as new members of the Association.



All Hills Fencing

All Hills Fencing has been supplying and installing fencing to the Sydney region and beyond for over 30 years. With a team of over 60 experienced staff, Managing Director, Jeff Norris feels his company can handle the ever growing complexity of supplying and installing commercial and industrial fencing to major projects which demand high degrees of quality control and tight programming.

As the company's slogan "One Stop Fence Shop" suggests, All Hills staff are also qualified in all facets of fencing including timber, metal or glass, as well as rural and hoardings.

More information Tel: (02) 9636 2345.

E-mail: sales@allhills.com.au



D&D Technologies

D&D Technologies is a company dedicated to the design and manufacture of quality, state of the art gate latches, locks and hinges. They are the trusted name in innovative gate hardware and their Australian-made products are sold world-wide.

Established in the late 1980's, D&D gained international recognition with its ground breaking MagnaLatch® magnetic child safety gate latch for swimming pools. Since then D&D has expanded its operations and continues to grow its product range. They are fiercely passionate of their Australian made and Quality Assurance status.

More information Tel: (02) 9454 7888

E-mail: sales@ddtech.com.au



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New sponsor for the AWIA

It is our pleasure to announce that ITF Hire have agreed to become a bronze sponsor of the Association for 2020.

ITF Hire specialises in temporary fencing, crowd control barriers, portable toilet hire and servicing, liquid waste management and both internal and external hoarding. ITF has been servicing the greater Sydney region for over 10 years providing their clients with quality products and reliable services.

With ITF Hire coming on board, the Association lifts its number of sponsors to seven, and we thank all of them for their generous support and encourage our members to return the favour wherever possible.

If any readers would like to consider sponsorship of the AWIA, please contact Richard Newbigin (richard@wireassociation.com.au) for details of sponsorship options.



Louis Younis (R), Managing Director of ITF Hire receiving his Sponsorship Certificate from Richard Newbigin

TFAA



New members are always welcomed by the Association, but one of our newer members came with an additional benefit. ITF Hire recently approached the AWIA secretariat to see if a change to the current logo for the Temporary Fence Association of Australasia would be considered. We agreed

that the current logo looked a little dated and could benefit from a facelift. ITF put their graphic designer to work, and two designs were eventually submitted. The National Committee reviewed the choice and decided that the design above fitted the brief perfectly.

We welcome member feedback and thank ITF Hire for taking on this initiative. If any members have suggestions for improvement of any part of the AWIA, please contact Richard Newbigin (richard@wireassociation.com.au). All input is gratefully received.

Keeping track with GST and BAS tips

Before lodging your business activity statements (BAS), AWIA has sourced the following information from the Australian Taxation Office (ATO) to help you and your business.

Keep your records simple:

Keep simple, effective records, including supporting documentation (such as valid tax invoices for all business purchases over \$82.50 that include GST in the price). If you're a sole trader, you can use the ATO app for record keeping - www.ato.gov.au/general/online-services/ato-app/

Dealing with GST:

Remember to only claim GST credits on the right purchases. You can't claim credits on purchases that don't include GST, or on purchases for private expenses. When preparing for your BAS why not put money aside in a separate bank account for the GST you receive to make it easier to report and pay.

BAS statements:

Lodge your BAS using ATO Online Services www.ato.gov.au/general/online-services/. This facility will prompt you to correct any errors and allow you to check whether you've completed your BAS correctly. If you're having trouble paying your BAS, contact the ATO as soon as possible www.ato.gov.au/Business/Reports-and-returns/What-if-you-can-t-lodge-and-pay-on-time/

Simpler BAS

The ATO has been working with digital service providers to make classifying GST easier for small businesses, otherwise known as 'Simpler BAS'. If you're eligible for Simpler BAS, the changes will save you time and make it easier for you to capture and classify your invoices. Selecting the right GST tax code when entering an invoice is now a simple question of 'Does the sale or purchase have GST?' Visit ato.gov.au/SimplerBAS, refer to your accounting software provider's online support or talk to your registered tax or BAS agent or bookkeeper for more information.

For further information about lodging and paying your BAS, visit ato.gov.au/BAS

Social Media Updates:

AWIA on LinkedIn and Facebook

Members will be pleased to know that the AWIA now has its own LinkedIn page and we invite all readers to 'follow' our new page. The Association is also on Facebook, so check it out and give us a 'Like' there as well.



DIAL BEFORE YOU DIG

The AFIA has applied to become a non-asset owning member of Dial Before You Dig (DBYD) Vic/Tas. We see that both organisations can benefit from working with each other on a more formal basis.

At their recent Board meeting DBYD Vic/Tas ratified our membership which will commence immediately. One of the first changes that members will notice is the use of the DBYD logo on AFIA media. We encourage all fencing members to work safely and contact DBYD whenever an excavation, large or small, is planned. The enquiry costs nothing as the service is funded by asset owners, and you may not only avoid substantial costs through damage to an unknown underground asset, you may also save lives when high risk assets such as gas or electricity services are involved.

Dial Before You Dig can be contacted by phone on 1100 during business hours, or at www.1100.com.au



The Essential First Step.

Training Award

The \$2500 Training Award is still up for grabs this year. The final application date is June 30, 2019.

All member companies may submit applications to reward one or more of their staff whom they believe are deserving of recognition for their hard work or inventiveness in the wire industry.

The aim of this award is to keep good people in the wire business by providing them with the means to add to their knowledge of the industry. It's all about education and support for your employees to improve their worth to your business and to the industry as a whole.

So, if you have someone within your ranks whom you would like to recognise for their achievements or dedication, please put their names forward, and we shall guide you through the application process. The Training Award Criteria is available in the News section of the AWIA website.

http://www.wireassociation.com.au/sites/wireassociation.com.au/files/AwardCriteria_2017v4.pdf

Please remember that the Award is available to all staff - internal, external and factory floor.

Please contact richard@wireassociation.com.au

Machinery Wanted

1 x used Helicoil Machine required. All machines considered.

Readers are encouraged to contact Richard Newbigin (richard@wireassociation.com.au) if they have any machinery (or other assets) they would like to buy or sell. All information supplied will be treated confidentially.

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Anti-Intruder High Security Fencing Standard



As previously reported, Standards Australia has approved the commencement of drafting a new fencing standard covering the requirements for the design, materials and testing regimes for anti-intruder high security fencing systems.

Due to workload restrictions at Standards, a delay in commencing the drafting has been experienced.

In the meantime, John Morris, who instigated the proposal for the development of the standard, has been working to gather a group of interested individuals who have expertise in aspects of designing manufacturing or supplying components making up high security fencing systems to scope and identify key elements to be included in the standard.

To create a new standard which encapsulates all the requirements for providing a secure high security environment, input from all stakeholders associated with providing this level of security will be required.

Members and colleagues interested in finding out more about this project should contact John Morris via email jmorris9949@gmail.com or mobile 0409 542 317.



National Code of Practice - Sliding Gates

After a hiatus of several months due to a heavy workload associated with another standard, drafting has resumed on compiling a preliminary document for the National Code of Practice for the Design, Manufacture and Installation of Metal sliding gates.

At this stage, focus working groups have been established in Victoria, South Australia and Queensland. The South Australian group supported by Grant Murdoch of Downee have done much of the heavy lifting so far to identify the key points to be included in the section of the Code relating to Structural & Mechanical elements, Manufacturing and Installation.

The Victorian Group has worked on establishing a comprehensive list of definitions and abbreviations which are in common use within the industry.

A focus group meeting planned for June 2019 in Brisbane will flesh out the points needed to be addressed in the Automation section.

It is envisaged that the Code of practice will include a number of annexes which will provide practical check lists on Risk Assessment, Safety requirements and Handover procedures.

Once the key elements to be included in the Code of Practice have been agreed upon, then work will commence on fleshing out the statements and requirements.

Should you be interested in being part of a focus group providing input into this process or wish to monitor the progress of the development of the Code of Practice, please contact Brian Mullarvey (brian@wireassociation.com.au).



Photo: from Left Peter Jagminas (Secura Fence & Fabrication) John Harder (Fencing World) Boyd Shean (Shean Steel) Grant Murdoch (Downee).

AWIA May 2019 Conference

A cold but clear morning greeted delegates as they arrived at Southern Cross railway station for the morning trip to Geelong. In spite of a few tardy arrivals, including the tour leader and his intrepid right hand man, the group still managed to board the correct train, and off we went, right on time.

If any readers are looking for an easy way to get down to Geelong, the train is highly recommended. Those Liberty employees who joined us admitted to not having ventured down the highway by train before, but it was comfortable and quick, and gave delegates a good opportunity to catch up with each other or take care of those early morning emails or calls.

Our luxury coach took us from the North Shore station to Liberty's Geelong wire mill where delegates togged themselves up in the requisite PPE gear for the mill tour. The tour was very educational, and delegates came away with a far better understanding of the processes and subtleties of good wire drawing and galvanising practices. Comments following the tour were very positive, and it was requested that the Association arrange for a similar tour of Liberty's Newcastle mill sometime in the future. These tours allow member companies to send their operational staff along as well, as the tour can be isolated from other conference activities. Several operational staff joined us just for the wire mill tour, and then headed back to work.

Following the tour our coach took us the thirty minutes or so beyond Geelong to the end of the Bellarine Peninsula and

to our lunch and conference venue, Jack Rabbit Vineyard. The weather by now had become sunny and even warm, and it was turning out to be the perfect autumn day. Jeff Richardson, Managing Director of 12 Months On, addressed the group about strategies for making businesses exit ready, and the metrics that should be considered and monitored. After lunch, Mei Leong updated delegates on local and key overseas economies and their effect on the Australian steel market. Mei's presentations are very comprehensive, and reluctantly we allowed her only 35 minutes, thanks to delegates enjoying their lunch under the Bellarine sun a little too much.

From the vineyard, we headed off to the fast ferry for the trip back to Melbourne from Portarlington. Fortunately, the seas were smooth and we had no regrets from the longish lunch. Some even managed to down a few on board Coronas during the cruise back. Delegates were left to their own devices between the ferry trip and dinner, and many made their way down to visit National Manufacturing Week (NMW).

We met up again in the busy and vibrant Hardware Lane where a few extra delegates joined us following a long day manning their stands at NMW. The opportunity was taken during the meal to present three sponsors, Vater Hardware, Liberty Steel & Bekaert Singapore, with their sponsor certificates; a new initiative to say thanks for their valuable support of the Association.



Delegates enjoying dinner at Il Nostro Posto.



Matt Curry (L) from Vater Hardware receiving its sponsorship certificate.



Darren Edmunds (L) from Bekaert Singapore receiving its sponsorship certificate.



Mark Schmakeit (L) from Liberty Steel receiving its sponsorship certificate.

Liberty Steel – World Engineering conference in Melbourne Dec 2019

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Australian engineering will be in the spotlight as Melbourne prepares to host the World Engineers Convention (WEC) in November 2019. Liberty Steel has joined the WEC as a Premier Partner of the quadrennial event, which coincides with Engineers Australia's centenary year. This convention comes at a time when investment in nation-building infrastructure to sustainably meet the needs of Australia's rapidly growing population is driving opportunity and innovation in the engineering profession.

The theme of WEC 2019, Engineering a Sustainable World: The next 100 years, is aligned to the advancement of the United Nations' Sustainable Development Goals (SDGs), a key objective for WEC organisers the World Federation of Engineering Organizations (WFEO). Representing nearly 100 nations and 30 million engineers, WFEO is the world peak body for engineering and is recognised by the United Nations as one of the ten leading organisations in science and technology at an international level.

WEC 2019 will focus on the pivotal role of engineers in leadership and governance, innovation, sustainable cities and climate change and will bring together some of the greatest engineering minds from around the globe in one of the world's most liveable cities.

The convention program, aligning to the 17 United Nations SDGs, will feature international and Australian speakers

and will provide an opportunity for Australian engineers to share their expertise on an international stage.

With Australia's nation-building infrastructure development currently at record levels, the sustainable delivery of that much-needed infrastructure is essential.

Liberty is Australia's largest manufacturer of steel long products, a leading distributor of steel and reinforcing products, and operates one of the country's largest metals recycling businesses.

Liberty is redefining steel as a sustainable building material and is helping customers improve their projects' sustainability credentials. Steel is the most recycled building material in the world by weight and is infinitely recyclable. Liberty's focus, underpinned by innovation and science, is around 'Reducing, Reusing and Recycling', including contracting with SIMEC ZEN Energy for the supply of sustainable renewable energy to power its steelmaking. The company leads innovation through early project engagement and implementing best practice sustainable design using steel. Its range of steel products comply with stringent Australian Standards.

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FAQs

Designing Springs for High Temperature Applications

Q: What is considered high temperature for spring applications?

A: Spring designers consider applications with sustained service temperatures at or above 250°F to be high-temperature applications. Special considerations need to be made for springs at these temperatures to perform reliably.

There are many applications across industries where machine components see temperatures above 250°F, including those in foundry and manufacturing environments and in the oil and gas industries. Much higher temperatures are found in gas turbine and power generation applications.

Q: What happens to spring materials at these high temperatures?

A: The performance of most common spring materials like music wire, hard-drawn steel, and oil-tempered steel starts to degrade and experience load loss.

The results of load loss can include uneven support or loading in industrial equipment, insufficient force supplied to industrial processes, and difficulty in sealing or unsealing openings. Springs that are not highly stressed may only experience load losses of a couple percent. However, highly stressed springs can see load losses approaching 10 percent at 250°F, and increasing as the temperature rises.

Q: Are there spring materials that work at higher temperatures?

A: Alloy steels such as chrome vanadium and chrome silicon will lose just 1 to 2 percent load even at temperatures as high as 450°F. Stainless steel grades like 302 and 17-7 function will lose just a few percent load up to 500°F. Stainless steel grades are naturally corrosion resistant, even at these high temperatures.

For even higher temperatures, designers turn to nickel-based alloys that stand up to heat much better than steel. These include Inconel 750 and Inconel 718, both of which work in the 800 to 1,200°F range. Nickel-based alloys also resist corrosion, even when exposed to caustic chemicals.

Q: Can these alloys be used at the same level of stress as at room temperature?

A: At extremely high temperatures, designers apply an additional factor of safety. For instance, designers limit springs made of Inconel 718 to loads of 100 ksi at 800°F, even though they are capable of handling higher stresses at room temperature. At 1,200°F the maximum load drops to 60 ksi.

At 500°F, 17-7 stainless steels can be loaded to within a few percent of the level that is appropriate for room temperature operation. For alloy steels like chrome silicon and chrome vanadium, designers need to take the expected 10% load loss at 500°F into account.

Q: Is special processing required to get these strengths at high temperatures?

A: Chrome vanadium and chrome silicon alloy steels capable of operating up to 450°F are cold drawn and heat treated before spring fabrication, so no additional processing is needed. 302 Stainless steel is cold drawn and likewise requires no post-fabrication processing.

Content Reproduced from materials by Atlantic Spring.

HIRE19

The recent annual convention of the Hire and Rental Industry Association in Melbourne (May 22 to 23) was a good opportunity to catch up with some of our temporary fencing & hoardings members

It was an ideal chance also to brief those members directly about the latest developments in the revision of AS 4687 Temporary Fencing & Hoardings Standard. A report on these developments can be found elsewhere in this edition of The Link.

While meeting with Christie McCormack, National Manager of Titan Hoarding Systems, Richard Newbigin, Director/Secretary of the AWIA presented her with her sponsorship certificate. A rather reluctant Christie finally agreed to pose for the photo (see image at right). Thanks for that, Christie, and even bigger thanks for Titan's continuing sponsorship.



Wire Member Profile



South Fence Machinery

Global demand for safer, smarter, and faster fence manufacturing machines has seen New Zealand company South Fence Machinery invest in a larger manufacturing site, more staff and the latest CNC machine tooling technology to cope with demand.

Their core business is the design and manufacture of safe, reliable, and productive fence manufacturing machines, with a history dating back over 85 years. South Fence Machinery export to countries including Australia, Portugal, Spain, United Kingdom, Russia, Mexico, and the United States.

They manufacture machines to produce Stiff Stay, Fixed Knot, and Hinge Joint fence products, Machine mesh size, fence height, and machine specifications can also be fully adjusted. To supplement their fencing focus, they also manufacture barbed staple machines and wire coilers.

One example of South Fence Machinery innovation in Australia is the incorporation of a hinged section (apron) directly into the fence roll. This apron allows a section of fence to be folded, opening up a range of applications for predator exclusion in the Australian outback, also saving cost on contactor installation and improving fence versatility.



Tennis Australia

Tennis Infrastructure Planning Manual

Tennis Australia has completed the review of their Tennis Infrastructure Planning manual. The document's primary audience is Local Government, architects, planners, developers, designers and tennis court builders.

Whilst the document contains much valuable information on tennis court fencing design, it refers Specifiers and Tennis court builders back to the Australian Standard AS1725.2 - 2010 for more detailed information on the sizes, diameter and strength of specific elements.

The new manual includes many helpful hints on the design of club and community courts and specifically emphasises one such point - 'windbreaks on fences act as wind sails and as such translate high forces directly onto fence posts and rails. Different wind loadings apply across Australia depending on the location. The design of fencing with windbreaks must be completed by a qualified structural engineer'.

We expect that the manual will be available online in the next couple of months. In the meantime, further information can be sourced from the Tennis authority in your own state.





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Report - Fencetech USA

AWIA member and Managing Director of Olympic Fencing, Graham Braithwaite, recently attended the 2019 Fencetech Conference in the USA and has provided members with the following update on the event.

Fencetech 2019 was held in Indianapolis, USA this year and was quite different to previous years.

The stage has changed somewhat, as roller shutter and garage doors took up to 30 to 40 percent of the show. In saying that, there were plenty of exhibitors on fencing products to peruse over.

In the USA at the moment, the focus seems to have steered away from vinyl fence products, towards steel tubular products and new designed fittings such as hinges and locking devices.

I did find welding fume extraction quite interesting owing to new USA regulations. The trend is capsulising the fume from the welding nozzle rather than overhead vacuum fans.

There seemed to be no change in Automation. Chain drive large reduction gearbox systems are still expensive in the USA, so I think Europe has the advantage in this field. And the prevalence of importation companies from China was

smaller than the last time I visited two years ago but a strong presence all the same.

It was a worthwhile trip to see how Australia is comparing with the USA across the fencing range, with encouraging indicators that we are in touch with our market and not falling behind the rest of the world.



Steel Wire Association of Malaysia

Late last year, Sanwa's Steve Wade introduced the Association's secretariat to two Board members of the Steel Wire Association of Malaysia (SWAM) while they were visiting Melbourne. Wong Leong Ming is Chief Operating Officer and a Director of Perfect Wiremakers Sdn Bhd, while Toh Tuan Sun is a Director of AYS Ventures Bhd, a listed Malaysian company manufacturing and trading a range of steel products. The meeting builds on the Association's desire to form strong relationships with other international associations with similar goals and membership base. SWAM relies solely on volunteers for its activities, not having any dedicated secretariat, and, over time, there may be ways for the AWIA to assist SWAM with the operational part of their activities.

Like many industry associations all around the world, a major concern for SWAM is government led liberalisation of imports that impact on their members' ability to compete. Rather than trying to resist this change, SWAM is advocating that members of their Association strive to improve their competitiveness both in the supply of raw materials and finished goods. SWAM members cover a broad cross-section of the wire industry from drawn bar to barbed wire, mesh, bolts and nails, and pretty much everything in between.

Any members wishing to develop business relationships with wire companies in Malaysia should contact Richard Newbigin (richard@wireassociation.com.au).

Life Member Profile

Paul Hrones



Paul Hrones was a past member of the AWIA national committee for over 20 years, a past national president, and one of the principals in machinery supply company Fraser Hrones.

Starting in the wire industry at 16 years old under the mentorship of Jerry Havlik at National Springs during his school holidays, Paul went on to study Industrial Engineering at NSW University of Technology.

Paul went to Europe in 1958 where he worked in a variety of occupations, including machinery design and sales, and undertook training with spring machines, wire working machines and fastener manufacture.

After returning from Europe in 1962, Paul started selling

the equipment which his father's company represented and sold including spring making machines, wire forming machines and fastener manufacturing machinery.

In the late seventies, Paul persuaded about 15 wire industry manufacturers to travel with him to Basel Switzerland to see the Wire Exhibition. This exposed the Australian wire industry to new ideas and information that set us on the path to improvement.

Paul loved what he did and one of his missions was to get the Australian wire industry to 'value add' their products and services – like the transformation of wire from it's existing state to another, which because of the transformation (labour, other products or shapes) can now be more valuable. With value adding came a higher reward in a higher price.

Another of Paul's missions was continuing education within the industry. As an incentive for this he started a fund to reward employees in the industry for their inventiveness and achievements in the context of wire.

'As a nation we want to enjoy a high standard of our life. Our new competitor is now the world and we have to live up to Bob Hawke's call to win by being smarter. We do this through areas such as quality, which always seems to be higher than most international competitors,' said Paul recently during an interview with the AWIA.

Paul did some consulting work later in life, and when he retired in 2006, he felt it was time to call a halt on a very rewarding professional career. 'I have to admit that I miss the industry and the great people I had the privilege to work with.'

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Are you at risk of being hacked?

Today we are inundated with threats to our personal security. We need to stay vigilant with our computer systems, email and our logins/passwords to online services. Keeping your passwords secure is important.



The difficulty in managing passwords is remembering them. However, having an easy to remember password and using it for everything is an enormously risky approach to take.

To test how quickly your password could be hacked, use this website and paste your password in here: <https://howsecureismypassword.net/>. This password tester will show how long it could take for just one computer to hack your password. But in the real world, it is often not just a single computer that will be used to hack your machine. An attacker will often coordinate many computers working together. This means that your password, which might take 1000 years to crack with one computer, could easily be done within 5 minutes for a coordinated attack from many computers.

It is recommended that you use different passwords for different services, have a minimum of 12 characters (but even 15 plus is recommended), have a mix of uppercase, lowercase, symbols and numbers, and do not use repeat sequences.

Managing long secure passwords is daunting, however, services such as Dashlane <https://www.dashlane.com/> can make it secure and easy. You will not have to remember passwords anymore with Dashlane protecting them in a format that prevents hackers from gaining access.

Article courtesy of Mark Parsons at Digital Catalyst Group Pty Ltd



AS4687 Temporary Fencing and Hoarding Standard

The last meeting of the CE-008 technical committee was held early February, and all outstanding objections to the proposed revision were discussed and fully resolved. Unfortunately, three months on, Standards Australia have not only failed to progress the draft to public comment stage but have also decided to reconstitute the CE-008 committee and effectively restart the project.

Standards Australia has shown a determination to proceed down this path despite the objections from committee members. The reasons put forward for this decision are that there continue to be sustained technical objections from a small section of the committee relating to:

- The lack of reference to AS 1170.2 Structural Designs Wind Actions, and
- The minimum wind speeds used for testing of temporary fencing systems (currently at 15m/sec) being too low.

The consensus of the current committee is that these issues were dealt with and resolved during the February meeting, and that the objecting members of the committee were unable to provide evidence to show any significant risk through retaining the wind speeds specified in the current Standard.

Experience has shown that temporary fencing systems predominantly fail when the system is partially dismantled and not correctly re-instated. Any change to minimum wind speeds will not address this issue.

In the meantime, poorly constructed, and potentially dangerous, hoardings will be erected, and there will be no Australian Standard in effect for temporary pool fencing.

Standards Australia has also stated that the newly constituted committee will be responsible for completion of the revision of AS 4687, and for drafting a new Standard for high security anti-intruder fencing. As there will be little, if any, overlap in the expertise required for each of these projects, it is hard to comprehend why Standards Australia has decided to venture down this path. It is certainly not with the blessing of the current committee.

The ramifications for the temporary fencing industry by these actions of Standards Australia are substantial, and members affected are encouraged to write to Standards Australia to voice their concerns. Members can contact Richard Newbigin (richard@wireassociation.com.au or 1300 942 500) for the appropriate contact details at Standards Australia.

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Handy Hints for Sports Fencing



2MH CONSULTING ARE THE OFFICIAL FACILITY ADVISORY SERVICE FOR TENNIS VICTORIA & NETBALL VICTORIA



2MH Consulting designs and delivers outdoor spaces and sporting facilities for local government, education, sports groups and commercial customers. Mick Hassett, Director and Senior Project Manager at 2MH Consulting, answered a few questions recently about some of the issues and factors around designing and installing ball protection fencing and fencing for sporting applications.

AWIA - Most chain link manufacturers can produce 3.00/3.60m wide chain link. Not all can produce chain link fabric wider than normal tennis court mesh. What are your thoughts on this?

2MH - The typical height of a ball protection fence is around 6 metres. However, some extend as high as 8-plus metres. This would usually mean two runs of 3 metre-wide chain link, at least.

AWIA – What’s the normal number and positioning of support cables?

2MH - The number will vary based on fencing height. We have seen 450mm maximum centres nominated for all support cables and horizontal rails.

AWIA - What are the advantages of specifying top rails – cost versus longer life?

2MH - In our opinion top rails are a necessity on all sports fencing – 1.2 metres up to 8 metres plus. It will provide a much longer life span, particularly aesthetically.

AWIA - Should fences over 3.6 metres high have input from an engineer?

2MH - Fences either 3.6 metres in height and over, as well as fences required to support signage and/or windbreak material (even if below 3.6 metres in height), should have soil testing undertaken and the fencing be designed by a suitably skilled and experienced structural engineer.

AWIA - What requirements are there for wire coatings when designing fencing for Councils?

2MH - Many Councils these days have policies that they only build fencing structures in black with PVC coated wire. It is a wise investment that will help extend the life and appearance of the fencing.

AWIA - How you determine the grade of pipe to be used for posts?

2MH - We always stipulate that the commercial grade, heavy duty specified materials from the Australian Standards are to be used as a minimum. The structural engineer should then design up from there when calling up the steel work required.

AWIA – Painted posts versus powder coated?

2MH - We find that this is a client selection, as we have had clients that prefer to paint posts because patching scratches and marks on the powder coated materials can often deliver sub-standard results. They are also more comfortable repairing with paint.

AWIA – What are some of the installation issues – i.e. working at heights, safety restrictions?

2MH - OH&S requirements must be observed, and in most cases permits to work will be required from the land owner / land manager. Any contractor engaged to perform such work should provide all of their Safe Work Method Statements and a detailed methodology for client approval prior to commencing works.



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If you are intending travelling interstate or overseas this year, it could be worthwhile combining your travel with a visit to one of the trade exhibitions below to discover innovations which could improve efficiencies and productivity in your business.

2019

June 11–13 Wire & Cable 2019

Guangzhou Shi, China
<http://www.wire-cable-china.com>

June 18-20 Wire Russia 2019

Moscow, Russia
<http://www.wire-russia.com>

July 24-26 2019 ASIAL Security

Exhibition & Conference
 International Convention Centre Darling Harbour, Sydney
<https://securityexpo.com.au>

August 14-16 2019 Wire & Cable Vietnam

Saigon Exhibition & Convention Centre Ho Chi Minh, Vietnam

September 17-19 2019 Wire & Cable Trade Fair for South East Asia

Bangkok, Thailand
www.wire-southeastasia.com

October 1-3 2019 SMI Metal Engineering Expo

Pittsburgh, Pennsylvania, USA
<http://www.metalengineeringexpo.org/>

October 15 AWIA 1 Day Conference & AGM

Details TBA

November 19-24 2019 World Engineering Convention

Melbourne Convention & Exhibition Centre, Melbourne
www.wec2019.org.au

December 5 AWIA Christmas Dinner

Melbourne
 Details TBA

December 12-14 2020 India Fence Expo 2019

Chennai Trade Centre, Chennai (Madras) India
www.fenceexpo.com

2020

January 14-16 2020 International Exhibition for Perimeter Protection Fencing & Building Security

Messezentrum Exhibition Centre Nuremburg, Germany

March 3-6 2020 Fencetech

Salt City Convention Centre, Salt Lake City, Utah, USA www.americanfenceassociation.com/fencetech

June 2 – 4 2020 WAI Wire Expo

Mohegan Sun Resort and Casino, Uncasville, Connecticut, USA

March 30-3 April 2020 International Wire & Cable Trade Fair

Fairground Dusseldorf, Germany
September 23-26 2020 All China – International Wire & Cable Industry Trade Fair

Shanghai New International Expo Centre Shanghai, China

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"The LINK" is an industry newsletter publication by the Australasian Wire Industry Association Inc. ABN 95 602 035 937 ARBN 103 377 537

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