



# From the Chairman

September 2018



## 2018 EMICoL Sundowner

We continue to form great alliances and partnerships and in August the team at South Metropolitan TAFE were kind enough to host a major event for our member Weld Australia, where we had 76 attendees. EMICoL and the Henderson Alliance brought together their members from the resource and defence sectors to listen to some great speakers throughout the evening.



Weld Australia, CEO Geoff Crittenden introduced the proceedings for the evening and introduced guest speakers. EMICoL member Donna Hutchison is a founding Director in her business Quensh and has over 15 years of local and international experience in delivering HSEQ related projects. On the night Donna gave a great presentation on various safety initiatives relative to our industries. Representatives from EMICoL, Kevin Davis and Reece Carey from The Henderson Alliance introduced and informed all attending about these industrial resource and defence groups and how they, with growth, were starting to support their members.



Geoff Crittenden, continued with the evening sessions by inviting several key note speakers to present what they were currently doing within their businesses to expand in the defence sector. This was followed by a question and answer session. Geoff, on behalf of Weld Australia, kindly presented each speaker with a certificate for their relative business.





The finale of the night was the demonstration of the Soldamatic Augmented Welding Machine by Medhi Tajfar. Who's the welding consultant for Weld Australia.



Geoff Crittenden introduced Medhi and further explained that it was enlightening to be able to demonstrate their equipment with EMICoL and Henderson Alliance members and advised that this was first of several defence welding hubs to be launched in Australia. Members of the audience were invited to trial the equipment on the night.

Welding is a core capability critical in the delivery of upcoming defence equipment projects. An elevated level of welding competence will be required by both prime contractors and subcontractors in the supply chain if projects are to be delivered efficiently and companies are to take full advantage of the opportunities this defence initiative offers. The equipment demonstrated is a very positive step to enhance welding skills with all the further benefits listed. A further article was written by Defence Connect for those interested, the link is below:

[www.defenceconnect.com.au/key-enablers/2689-weld-australia-to-launch-wa-defence-welding-hub](http://www.defenceconnect.com.au/key-enablers/2689-weld-australia-to-launch-wa-defence-welding-hub)

Soldamatic Augmented Training is the first Augmented Reality welding simulator worldwide. In its first year on the market (2014) 25 units were sold in Russia, South Africa, Hungary, Poland, India, Canada and USA. Soldamatic AT enables training institutions, governments and welding associations to attract young people to industrial careers and close the gap between the market demand for qualified welders and the available workforce:

- Increasing the number of students leveraging existing infrastructures (400 % more students than with traditional methodology)
- Improving the quality of the training increasing the skill level of the trainees. Only when students are efficient welders in Soldamatic they can move to the welding workshop
- Saving welding lab time and costs. Training experiences conducted in collaboration with German GSI-SLV, Spanish Welding Association (CESOL), big industries like Volkswagen, resulted in certifying 34% more welders, in 56% less time, saving up to 68% of training costs
- Green technology that helps reducing CO2 emissions of traditional welding programs
- Minimizing liability risk: avoiding physical risks for students until they acquire a skill level that minimizes injures while practising in the lab

Soldamatic AT becomes more efficient when used in a classroom of at least 10 units. Simulators are connected among them with a server and with the Teacher Software. There are already a number of Soldamatic classrooms in USA, Germany, Brazil and India among other countries.

If you would like a demonstration or just want to find out more, please contact Medhi Tajfar on mobile no: 0417 044 370 or email: [m.tajfar@weldaustralia.com.au](mailto:m.tajfar@weldaustralia.com.au).

In summary and on behalf of the EMICoL Co-operative I would like to thank all the above for bringing the event together, support in providing their premises, kindness in providing refreshments, key note speakers and presentations. I would further like to thank our sponsor, Simon McGrath from Cashflow Recovery for the kind donation of wine for door prizes.

I am really looking forward to seeing you at our next EMICoL networking event, which will be hosted by Auto Control Systems. Auto Control Systems have also kindly offered to let us use their premises for our AGM, which will commence at 4:45am just prior to the networking event. Our sponsor Think Perform have taken 3500 individuals across WA through their lean journey will be advising EMICoL members. On the night they will be announcing a workshop on lean that they are prepared to run for EMICoL members. Make a note in your diary now:

**AGM, followed by Networking Event (refreshments kindly provided by Auto Control Systems)**

**When: Tuesday 16<sup>th</sup> October**

**Time: 4:45pm – 7:30pm**

**Where: Auto Control Systems, Treasure Road North, Welshpool.**

Doug Ennis  
EMICoL Director

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## Training

### Susan Lawton (Director of DNA Kingston Training & EMICoL)

Just a reminder that the MERC Comp is on the 24th and 25th November 2018. We've attached further information on the MERC Comp with this newsletter, in case anyone is interested in showcasing their business.

I am a sponsor in conjunction with Red Earth, as we provide training to the mining sector in Cert II Medical Services First Response and Certificate IV in Health Care (Paramedic courses) with pathways to ECU for Degree programmes. I will be promoting EMICoL at the event.

First Aid is available as usual - at the member rate. On site or at our Training Centre.

Fork lift would need to be on site at the workplace and would depend on trainer availability at the time. White card training available on site or at our Training Centre (minimum numbers may apply).

If you would like to know more about any of the above, please contact the office or phone: 08 9479 4870 or email: [admin@dnakingston.com.au](mailto:admin@dnakingston.com.au)



## New Equipment /Opportunities to Rent Office Space

### Steve Delfos (Director of Avtech Engineering & EMICoL)

This month our members would like to share the following on new equipment purchased to improve capacity and capability and opportunities for lease of Office space.



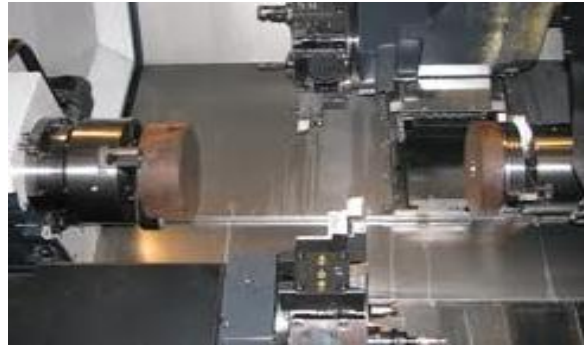
## New Equipment at Verriers In Their New Premises

Verriers Engineering

Horizontal Multi-Axis Lathe (8 Axis)



A high-precision, high-productivity horizontal turning centre that can compressively control various parts turning processes via a vertical 2-turret structure and 2 opposed spindles both with Live Tool milling for a true done in one process. If you would like to know more, contact Jon Frisina on [jon@verriersengineering.com.au](mailto:jon@verriersengineering.com.au).



## New Equipment and Expansion at Avtech Engineering

Avtech Engineering

Fanuc CNC EDM Wire cut machine



Over the past few months, following the expansion of their workshop, Avtech have installed two new pieces of equipment.

The first was a Fanuc CNC EDM Wire cut machine.



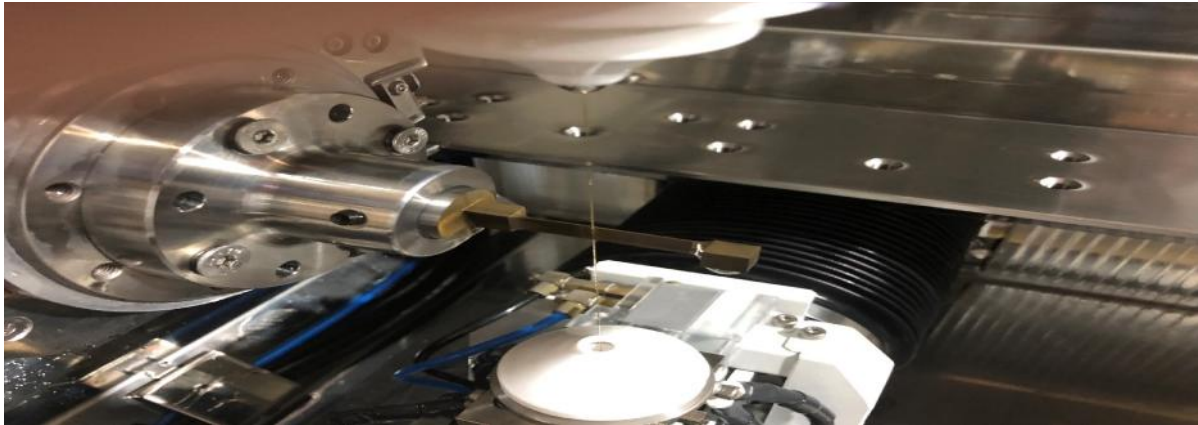
This machine uses a very fine brass wire 0.25 diameter, to cut through any conductive material. The wire is one pole and the material is the other, when they come close to contact, they arc and heat the material up to a point that it melts. As the material melts, the particles are washed away and so the cutting begins.

The shapes can be quite intricate as well as precise tolerances can be achieved.

Steve Delfos said, that he hoped this would open new opportunities for Avtech and enable them to offer new services to their current and future client base.

His staff are already using it to cut parts that would have been machined in a more conventional way previously. It works unmanned and hence overnight.

Optional equipment that has been included is a Rotary Axis, enabling the cutting of spiral shapes, as well as rotating a part to cut a different face. Reducing the need to reset and re-clip. The maximum cutting height is 400mm, which is the largest in Perth.



Here you can see a part being cut where the central part (next to the wire) is only 0.5mm thick. This could not be made without this piece of equipment.

## Item 2: A Mazak QTC 300 M

The second piece of equipment installed is a new CNC Lathe with Live tooling.

A Mazak QTC 300 M

This machine will complement a similar machine purchased last year, which has been so busy since its installation, that the need to buy another was a simple decision to make. These machines are capable of making the most complicated parts, look easy to make.



These are Stainless Steel Balls for a Ball Valve.

They came off the machine complete in one setup, ready to be installed in a valve.



Parts for the Oil and Gas Industry.



## Office space at Chess Engineering

Chess Engineering



Office space available for rent

Chess Engineering, 100 Dowd Street, Welshpool have a vacant 'independent office' available for rental: The unit comprises three rooms of approximate dimensions:

- 3.5M by 3.5M
- 10.0M by 3.5M
- 3.5M by 3.5M

Each room within the unit is supplied, serviced with air conditioning, lighting, power and office cleaning included in the unit monthly rental of \$1000 per month (for the 3 rooms) Currently partially furnished the unit is available for your use either partially furnished or unfurnished. Whilst it is desirable that the rental period be of 6-month duration, shorter or longer rental periods will also be considered.

To view the office space please contact Ian Mackay, General Manager, Chess Engineering on [i.mackay@chesseng.com.au](mailto:i.mackay@chesseng.com.au)



## New Equipment at Chess Engineering

Chess Engineering



### High Performance Plasma HPR 400XD Head

Superior cut quality and consistency

- HyPerformance plasma cuts fine-feature parts with superior quality and consistency
- HyDefinition® technology aligns and focuses the plasma arc for more powerful precision cutting up to 50 mm
- New HDi™ technology delivers HyDefinition cut quality on thin stainless steel, with extremely sharp top edge quality, shiny surface finish, and superior angularity with reduced angle variation



# Investment in Expansion and Collaboration a Winner

## Jeff Hunter (Director of Primary Sales & EMICoL)

Since expanded our workshop to facilitate in house and external blast and paint we have acquired more industrial work through our Paragon Industrial arm.

We currently utilise 2 shifts to supply components to both our Industrial and agricultural Clients. Additional shifts are required for the constant flow of Emar Chaff Decks for the agricultural sector to aid Farmers in weed seed control. You can see in the photos below a good mix of work from our in-house products to products for new Clients in other industries.

In the last 12 months we have worked with our fellow EMICoL members Precision Sheet Metal & Chess Engineering to build the cabinets you see below.

We are now utilising our fellow EMICoL member at Goodwill Engineering to fabricate a lot of our smaller items for the agricultural sector.

Even though an additional shift is currently running to ensure supply of components to both Industrial and Agricultural customers we aim to use our EMICoL network and other existing suppliers to help us meet our customer needs now and in the future.



(Below: Chaff carts, chutes, frames, cabinets, specialist grain trailers)



## Membership

John Morris (Business Development)

## New Membership / Sponsorship

Currently we have 51 members and 5 sponsors. The EMICoL Board would like to welcome new members and look forward to meeting with you at future events. New members since our last newsletter are; SMS Contracting. Level Steel Engineering and Construction and Interlink Power Group. As always, any work or information you can share with new or existing members/ sponsors is always very much appreciated.



We would also like to acknowledge our Sponsors:

## Gold Sponsors



[www.axisfg.com.au](http://www.axisfg.com.au)  
1800 111 299



[www.supersimpler.com.au](http://www.supersimpler.com.au)  
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To find out more from our existing Bronze Sponsors, see website links below:



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<https://www.supplementmart.com.au>

1800 725 660



<http://cashflowrecovery.com.au/>

1300 885 244



<https://www.thinkperform.com.au/>

1300 667 099

## Information on the Advanced Manufacturing Growth Centre (AMGC)

The AMGC is a key plank of the Australian Government's Industry Growth Centres Initiative and it is part of a \$248 million initiative to establish Growth Centres across six sectors which drive the nation's economy. These are all smart, high-value and export focused Centres dedicated to Advance Manufacturing; Food and Agriculture; Medical Technologies; Mining Equipment; Oil and Gas; and Cyber Security.

They connect with a nationwide network of research and development hubs, and our role is to unlock new commercial opportunities and drive innovation in Australian manufacturing. This may be through jointly funded commercialisation projects that will help transform the industry and increase exports, hubs, our membership program and the support of the education and skills needed to grow Australia's advanced manufacturing capabilities.

The AMGC collaborates with numerous manufacturing firms and research institutions and these include international blue-chip companies, SMEs and universities. Joint industry commercialisation projects are being developed to stimulate industry growth and create jobs. Examples include composite fenders for a European car manufacturer, low maintenance water purification units, industry 4.0 test beds and many others.

EMICOL and its members, may be interested in joining AMGC's membership program, which is free of charge and information on this can be found below.

AMGC Membership activities:

- Member Networking Events

We do not have any workshops currently scheduled in Perth, but we will notify members when a workshop or upcoming member meeting is scheduled. These events include an update from AMGC on research and current projects, and is an excellent opportunity to meet and network with other manufacturers

- futuremap™

As part of your membership, you will be invited to participate in a futuremap™ workshop which will give you a guide to the gaps in your business as it attempts to grapple with the emerging IoT digital technologies that are spurring the growth of successful manufacturing companies around the world

- AMGC Research

AMGC has research that seeks to identify and analyse opportunities to lift the competitiveness of Australian manufacturing. The following reports set out actions for companies, governments and research organisations to realise these opportunities and transform the manufacturing sector:

- AMGC Sector Competitiveness Plan
- Building Resilience in Australian Manufacturing
- Advanced Manufacturing – A new definition for a new era

Your organisation and members can register for AMGC membership with a simple application at <http://amgc.online/>

Contact for any questions is:

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## Summary

The EMICoL Board would like to thank you for your ongoing Sponsor/ membership and look forward to working with you on the exciting times ahead.

The EMICoL upgraded website which is underway through our member Type Tamer, should be launched early October in time for our AGM. Once launched and within reason, please advise if there are any details that you would like to add or change on your Company profile. We will send out an email with website details when ready.

In the last newsletter we mentioned up and coming work in the Peel Region. The EMICoL Board have set an objective to try and grow EMICoL in the Peel Region, with a view to seeking collaboration with likeminded Companies in CBD Perth and Peel. We are very pleased to state that we now have our first member for EMICoL Peel, Interlink Power Group. We are really looking forward to working with our new member to create the win - win situation and we are working with them to host a function in early 2019 for our members and companies in the Peel area.

If we can assist you with anything then please email us on: [enquiries@emicol.com.au](mailto:enquiries@emicol.com.au) or phone John on Mobile:0479 117 060