



**Casting Industry –
the career choice for
makers, creators,
and innovators**

Melting Moments – June 2024

Visits events

- Skilled Migration 17 April
- Gold Acres 15 May
- Choice Energy 19 June

Next Event

- 17 July 2024 5:30 pm ManuFutures
Deakin University Waurn Ponds
Automation (site visit)
plus Richie Smyth – Aluminium Casting
(presentation)

Presidents Report

Amber Maxwell – AFI Victorian President

Welcome to our Winter 24 edition of Melting Moments. Not surprisingly we have had another busy few months between Newsletters, hosting a regional Victorian Manufacturing business Site Tour and a couple of presentations. Our FiaB team has remained busy hosting a stand at the Tech & Trades Fit Expo - designed to attract and introduce girls to a variety of technical and trade roles. This year the usual FiaB team were joined by Rebecca Keech, Tameka Penrose and Evanne Young. On the first day the Derwent ladies and I were “interviewed” by Alan Cooke on the presentation stage where we had the opportunity to discuss the pathways into a career in the industry and the opportunities and variety that a career in metal casting can provide. Attendance at this event remains invaluable in promoting our critical industry and expanding awareness of our industry.

Sadly in the past few weeks we have lost several of our colourful Industry characters; shrewd business and community minded men and legends, with the passing of Doug Evans - Wangaratta Foundry/Derwent Industries, Australia’s oldest Foundryman and Victorian Legend William (Bill) Pratt, and Malcolm (Butch) Snowden – Fleet Forge, Dynaref and GIFA Guru. To the family, friends and associates of these remarkable foundry stalwarts we pass on our sincere condolences.

For those of you who were unable to make our June presentation by Alex Townsend from Choice Energy - the streamed presentation and the accompanying PPT is uploaded onto the AFI Website. Links to both appear later in the newsletter. Both Alex and the audience engaged in insightful and robust discussion as Alex shared some commentary on the current situation and some important hints on how we can better negotiate our upcoming energy contracts.

Remaining at the forefront for many businesses is the challenge of attracting, securing and retaining skilled staff. In April Lisa Zhang and Sherry Dhawan, Visa Solutions Australia shared some of the regulations and requirements employers need to address and meet in the pursuit of employing skilled migrants. Finding and retaining skilled workers has become a critical concern, with many companies struggling to fill essential roles. Alan Cooke’s recent request for Job vacancy current and forecast data will assist the AFI in lobbying the government and decision makers on decisions relating to Migration and Funded courses. Whilst we experienced a glitch with the recording the PPT presentation has been uploaded for your reference and Lisa and Sherry are more than happy to speak with you and assist if required.

For many of our members the recent announcement of the National Battery Strategy promises opportunities and the option to invigorate the sector fostering innovation and sustainability in energy storage solutions. Furthermore, the National Rolling Stock Procurement Pipeline is set to boost demand for domestically manufactured components, also providing much-needed support and opportunities. These initiatives are poised to revitalise our manufacturing industry, positioning it for a more sustainable and prosperous future.

We are only a few short months away for the CTNZ/AFI 58th National Conference in Christchurch, New Zealand. If you haven’t booked your flight and confirmed your registration OR your seat on the Jet Boat click on the link following - before it’s too late.
<https://www.trybooking.com/nz>

With almost half the year gone we sadly remain impacted from a global perspective with the Russia-Ukraine war coupled with the Israel – Palestine conflict which both continue to impact business (shipping etc) but this pales in comparison to the human cost in each of the affected regions. It appears globally as well as in Australia that the government spending during the pandemic is beginning to impact on budgets such that multiple infrastructure improvement projects have either been stalled or moved out to a future period – NZ, USA, Thailand, UK & Australia have all stalled significant infrastructure spend into future years by between 33% - 75%.

In the domestic setting we have the rate of increase in CPI decreasing significantly with forecasts for the June quarter expected to see the reported numbers in the low to mid 3% range. This should be better news for cost of living pressures and be a relief for household budgets. Our industry appears fairly busy despite some increase in the softening of order books. The electricity and gas pricing and supply for every State except WA has seen an increase to ‘live’ pricing in the 2nd quarter. The energy regulator (AEMO) has forecast generation shortfalls over the next 2-3 summer periods particularly for SA & Victoria. This coupled with the Federal opposition beginning to argue the case for Nuclear reactors to be part of the solution for base load generation means the next year or so of energy policy will be important to try to influence actions that supply the NEM with consistent and less expensive utilities. The posturing of each major political party does NOTHING to replace the sensible actions that have been absent from State & Federal Governments for the past 30+ years. Our membership of EUAA has certainly given us both more detailed information and a stronger voice in dealings with State & Federal governments.

From an AFI National perspective we look forward to being able to catch up at the 2024 conference which is planned to be hosted by CTNZ in Christchurch. Please remember we need to know the issues each member is facing to enable the State & National bodies to advocate on your behalf, to enable the AFI to represent the industry effectively. In closing let’s focus on working with our customers & suppliers to make, create & innovate for the health of our individual businesses & the industry overall.

Brett Lawrence – AFI National President

Apprentices and Training

The Victorian Skills Authority (VSA) continues to have regular meetings with industry through Industry Advisory Groups (IAG). The metal casting industry is represented in the IAG-Manufacturing. This forum allows for 2 way communication between the training authorities and industry. We repeatedly hear that the issues that we experience relating to skilled personnel in metal casting are identical to what other manufacturing industries experience.

Often we have discussions about what can be done to increase the pool of people interested in working in manufacturing, rather than simply competing for people in a smaller collective pool.

In the most recent IAG-Mfg meeting, a proposal was tabled to create a Certificate II in Manufacturing. This would be school based training delivering foundation knowledge and skills across 10 units.

Previously I’ve mentioned the lack of metallurgical training options. This is beginning to gain traction with the training authorities (don’t expect a quick result !!). One avenue that is being pursued is to connect with the major steel producing businesses to learn how they cover their metallurgical training needs. If anyone has knowledge in this area, please contact Alan Cooke, agcooke52@gmail.com



MEM31719
Certificate III in Engine



MEM40119
Certificate IV in Engine

Foundry Industry Stalwart

Gerald Billman at 92 and still going strong, Gerald Billman, was born in 1932 and started his apprenticeship at Thompsons Foundry when he was around 16, he thinks the apprenticeship was 4-5 years long at the time.

In the late 70’s, Gerald’s son Max who also completed his apprenticeship at Thompsons Foundry, after hours at Thompsons would make small aluminium castings such as door knockers Gerald would come and help him. As time went by they eventually started bigger castings such as Bell Housings for the local Hot Rod company.



Around 1984 Max was no longer working at Thompsons and working full time on his own work, Gerald would come after work to help him pour the Aluminium.

Gerald came and worked at Billmans Foundry full-time, as it became too busy for a one-man operation and was also now pouring cast iron. Billmans Foundry expanded from there.

Some of the memorial castings that Gerald has worked on is the large Circulation Pump for Hazelwood or Gladstone at Thompsons which was approximately 38 tonnes. Restoration and casting of the Daylesford Fountain whilst at Billmans. Apparently, Gerald was away on holidays and when he came back, Max told him that he had the job making the moulds for the restoration, Gerry said a truck arrive and tipped a pile of rubble for him to work on, he said there wasn't much to go on. Gerald worked on and off on this job for 12 months, slowly piecing it together. Apparently, he didn't have a full Merman arm, so he modelled part off big Malc's arm, (big Malc came here to help for a couple of days and retired 35 years later).

Gerald retired around 1997, but still calls in most days for a chat and to see what we are working on. We all enjoy Gerald's visits, and his advice is invaluable.

Gerald just turned 92 and came in to help with a 1933 Austin Martin engine casting. His grandson Daniel said, "he bent up that wire quicker and better than any of us could do it"!

Harvester Tech

Harvest Secondary College Vice Project - A Day in the foundry at Beckwith Iron and Steel

For several years now AFI Vic and Harvester Secondary College have been collaborating to engage their students with the Metal Casting Industry.



This activity has encompassed FiaB Demonstrations at the college, engagement at Trade and Educational Expo's and now this year the Co-ordinator Peter Michellini has included in their curriculum a year long project that takes the students through each of the processes involved in the production of a Bench Vice.

The process begins with making of a pattern, through to moulding, casting, fettling, and finally machining of the vice to be ready for each student to "Take home" at the end of their school year.

On 22nd May Peter, several of the Harvester staff and 16 eager metal tech. students arrived to make moulds and follow the full casting process through a working foundry.



The group was split into 4 smaller groups lead by Alan C, Sam T, Murray B and Peter M and spent working in and observing each of the key production areas.

Student made moulds, watched pouring and spent time on the melt deck and in the laboratory learning about basic metallurgy and fettled their Vice castings that had been pre cast by the Beckwith team. They even had the opportunity to experience lunch with some of the Beckwith employees in the lunchroom for a full and authentic employment experience!



Feedback from all on the day and since from Peter has been extremely positive as the students now begin the programming and machining of their cast vice parts. Peter has very generously offered access to the notes and teaching aids and plans he has developed for this project to AFI for use in the future.

Sourcing Skilled Staff - Wednesday 17 April 2024 Offshore Recruitment and Employer Sponsorship

Onshoring versus offshoring

Visa Solutions, provided information on:

- skills shortages around the country affecting every industry and sector of the Australian economy
- two options for employers – bring skills onshore, and offshoring;
- recruitment from overseas and immigration solutions; and
- which visas to use and what are the risks and timing of onshore options



This is a good opportunity for members to liaise with Goldacres to identify weldments that would be better suited to casting. There were a number of weldments particularly on the boom that would be good candidates for replacement by castings:

Goldacres were concerned about the lead times they typically experienced when converting assemblies to cast components but were unaware of the rapid prototyping capabilities of our industry; in particular, the benefits of sand 3D printing, to quickly produce prototypes.

The evening finished with a meal at the Lake View Hotel with opportunities to network and discuss how we can further support their industry with casting solutions. Many thanks to Simon Hole and Luke Myers for hosting us. Overall, a very impressive organisation, one of regional Victoria's greatest success stories.

AFI May Site Tour

Wednesday 15th May – Goldacres - agricultural equipment manufacturer

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

On Wednesday 15th of May AFI members undertook a tour of Goldacres manufacturing plant in Mitchel Park, Ballarat. Goldacres manufacture world class spraying equipment for Australian agricultural broadacre, pastoral and horticultural industries. This includes a range of trailer spraying equipment and their very impressive state of the art self-propelled broadacre sprayers with up to 48-meter boom capacity.



A tour through the workshops demonstrated a very clean, efficient and lean operation that is driven largely by the requirements of a local, loyal customer base. Quality was outstanding and an obvious byproduct of the company's culture, built on processes, procedures, continuous improvement and 5S.

Goldacres assemblies are typically welded, however, they have started to use castings to replace some of the more complicated weldments such as the aluminium diff housing and SG iron boom hinge pictured below.



Work Experience Roundtable – LLEN Local Learning and Employment Network

On the morning of 23/5, Adam Hassell and Alan Cooke attended the 2024 Central Highlands School Industry Roundtable event in Ballarat with the focus of Work Experience within the Manufacturing and Health Industries.

This event was co-ordinated by Victorian Education Department. Representatives from businesses, industry bodies, schools (staff and students) and a variety of education associated bodies.

One of these bodies was The Local Learning and Employment Network (LLEN). There are 31 LLENs

which covers all the regions in Victoria. Their aim is to improve training, education and employment outcomes for all young people. They work to build strong relationships between schools, industries and communities.

One tool that the LLENs use is a database (School to Work portal) of careers and jobs. Students can use this to explore options and make connections with prospective employers. Work experience opportunities play a major role in this.

Though of interest to here of the experiences of various groups and people in relation to work experience, the most valuable outcome from this event was the networking opportunity that it presented.

Subsequent meetings with LLEN will result in Metal Casting careers being listed on the School to Work portal along with contact details for all metal casting businesses in Victoria. We encourage all of our business members to engage with their local LLEN, ensure that your contact details are included in the database and take on work experience students. Unfortunately, equivalent LLENs do not exist in other States.

- The energy transition to renewables (or nuclear) is a long way away, which means the volatility is expected to become the new normal for some time yet
- Australian businesses will not be paying less for power and will likely pay more in aggregate as this transition goes on
- As a top operational expense, energy should be a charge all metal casting businesses and manufacturers are contesting, there are hidden opportunities within energy bills that are open to manipulation that can help businesses save hundreds of thousands
- Commercial solar is now more viable than ever, and can be installed without requiring a budget and being a cash flow positive solution from day one
- Demand response is available in some high energy users' contracts, which enables businesses to receive money from retailers for switching their power off at times of high demand on the grid

AFI June Presentation via zoom

Alex Townsend from Choice Energy delivered an online presentation providing an update on the state of the energy market and guidance on energy re-contracting solutions. This important topic generated much discussion between Alex and the AFI representatives online from WA, SA, Qld and Vic. The following is a summary of the presentation -

Energy Market Outlook and opportunities for 2024 and beyond:

Alex Townsend from Choice Energy presented an outlook on the energy market and how metal casting businesses can best manage their energy costs given what we know and for the foreseeable future. Here were a few key points from Alex's presentation as well some other topics covered

- The Energy market is extremely volatile right now (40% increase in wholesale rates since Feb 2024), and so it's super important to know when your current contract is up and how forward contracting can help metal casting businesses save tens of thousands a year
- The volatility is due to factors around coal fire plants not working at optimal levels, as well as low solar and wind generation, putting strain on the unreliable grid

To find out more about the above and how you may be eligible to save on energy costs, reach out to Alex Townsend on 0435 080 646 or alex.townsend@choiceenergy.com.au It costs nothing to find out if your position can be optimized.

Richie's Review

To those of us who work in industries that deal with solidification of some sort, amber is a very interesting material. It is formed from tree resin, mostly pine, spruce and other conifers that has achieved a stable state through the loss of volatile constituents and chemical change after burial in the ground. It's colour and natural beauty has been admired since Neolithic times. It has been found throughout the world and its ability to produce static electricity has fascinated observers throughout history. It is usually of the yellow/orange/brown shade associated with the colour "amber", although its colour can vary from white to the very rare blue. It is a valuable addition to any scientific, mineral or gemstone collection.

A very young form of the material has recently been discovered in Victoria. The Maxwellian Amber was Doug (sic) from a Rosemary bed and just as described above, whilst its colour and natural beauty is admired, it has the ability to produce static electricity. Although

very rarely of a blue hue, this particular form should undoubtedly be avoided. It is a highly valuable and greatly appreciated addition to any collection, particularly that to which we belong.

Richie S

Butchulla Warriors Memorial, 'First Contract'

From: Olds Engineering
To: Keiran Slattery
Subject: RE: Hayes' support of the Butchulla Warriors

Hi Keiran,

Thanks for your support of the Butchulla Warriors Memorial, 'First Contract'. We thought you would like to see the finished work cast in your finest 88-10-2 bronze.

'First Contract' is a testament to our journey together along the path of reconciliation. Many people from various backgrounds have come together with a united aim – to share this story – which is now cast in bronze for future generations. It is a true example of how each of us can contribute to a positive journey of reconciliation in Australia.

This project was initiated by Butchulla Men's Business Aboriginal Association Inc. and Fraser Coast Regional Council. To say that we are pleased with the achievements of Butchulla Elder Glen Miller vision and our can do 'working group' is certainly an understatement. The best part for myself has been the relationships that have grown with wonderful people. Attached are just a few of many images you may use if you wish with any articles in the AFI Melting moments etc. about these positive steps to reconciliation and Hayes' much appreciated support.



Bill Pratt – 3/3/1922 - 6/6/2024

A Legend Celebrating 102 years

The AFI Vic member David Sykes was invited by the family to speak at Bill Pratt's funeral 28 June 2024



Some early life. Having an aptitude for Woodwork, Bill decided in 1937 as a 15-year-old to become a Pattern Maker, with a five year Apprenticeship with W.C.J. Faull and Co. in North Melbourne. With a 48-hour working week and two evenings per week at Night School, Bill learnt pattern making and foundry technology. His wages were £3/6- per week with a tool allowance of 2/- 6d.

He recounted that as his first job was sweeping the floors of the Pattern Shop, which he said was somewhat better than the new Moulding Apprentice who had to collect wheelbarrow loads of fresh horse manure from around the local streets. The horse manure being used as a binding agent for core making and moulding.

In 1939, Bill won the inaugural Institute of British Foundrymen (IBF) Beasley Scholarship.

In 1942, Bill gained employment at the Commonwealth Marine Engine Works at Port Melbourne. Here he made patterns for castings to refit WW1 submarines being used by the Dutch Officers out of the naval base in Fremantle WA.

After the war, Bill started his own business ACE CAST, at 758 Sydney Road, Brunswick, a very successful business and at its peak, employed 12 in the Pattern Shop, 12 in the Foundry and three Toolmakers, on six building blocks on the main road. At this time there were 20 Foundries in Brunswick.

In 1958, Bill was a member of the IBF, with George Thompson as the Secretary. Through the IBF, Bill learnt of new technology being developed in the UK, plastic patterns and the Shaw Casting process.

Bill travelled to the UK to attend the World Conference of Foundrymen in Sheffield and researched these new pattern making developments. Bill acquired a license to use the Shaw Process process in Australia. Bill's main product using this process was rubber moulds for Empire Rubber.

Bill continued to be actively involved in the IBF and was President in 1969. At this time the IBF Vic Branch had 350 members, with classifications as "Degree" "Full", "Tradesman" and "Ordinary" membership. He was also instrumental in setting up the Geelong Branch, as well as the IBF in New Zealand.

Bill has made a significant contribution to the Victorians Foundry Industry, as a Patternmaker, Business Proprietor for 32 years, training apprentices, introducing the Shaw Casting Technology to Victoria, through involvement with the IBF as a member, Treasurer and President, as well as setting and marking Pattern Making exams for 10 years.

In 2012 The Australian Foundry Institute (Victorian Branch), welcomed William (Bill) Matthew Pratt as a **Legend for the Victorian Foundry Industry.**

Bill, a Legend, a Mentor, a Practitioner, a Rotarian, a Friend, will be remembered.

In recognition of and to honor Bill Pratt, the AFI Vic has struck a perpetual award.

"The Bill Pratt Award for Excellence"

Vale Peter Morley (Meridian)



The AFI Family was saddened by the news of the passing of our long-term friend and member Peter Morley 7 September, 2023

His passion and expertise earned Meridian Sculpture a deserved reputation as one of the most highly respected and sought-after Art Foundries in the

country. Peter was deeply valued both as a highly skilled professional and a wonderful friend.

Our deepest condolences go to his family, colleagues and friends, and to the many artists who were privileged enough to work with Peter during his lifetime.

VALE Malcolm (Butch) Snowden

Malcolm (Butch)Snowden passed away peacefully on Saturday 15th June 2024.

Malcolm was much loved and revered by his loving family and friends and by many in the Metal Casting Industry as a result of his many decades of involvement in the Australian Foundry industry both in Victorian and South Australia.

Amongst many of his memorable talents one of his most talked about was his instrumental organisation of the "Aussie Boat" occupying 40 Australian Foundry Institute members, partners and associates for 20XX GIFA. We can only say "most" of what happened on that boat stayed on the boat!!!"



VALE Doug Evans

It is with great sadness we advise of the passing of one of our long term Foundry Industry member Doug Evans on 30 May 2024.

Starting business with Wangaratta Pump Shop to Kawandah Foundry, Kawandah Clamps and Couplings, WANG Industries to finally Derwent Industries. His legacy does not stop here, though spans many communities that dad has lived in. From being the youngest mayor in Wangaratta 1974 -1976, Justice of the Peace from 1977, two separate citizen of the year awards for Wangaratta (1984) and Mulwala (Corowa Shire Council) 2009 and an OAM (2014) for his service to the community, just to name a few.

His desire to help others and improve the communities in which he lived knew no bounds, a man of faith, a business leader and community advocate, he was always thinking and counselling others. A loving husband of over 60 years to Dianne (Mum), an amazing father to Craig and Stuart, father-in-law to Mira and Anna and above all else a dotting grandfather to Alyce, Emily, Ashley and Ryan. He will be deeply missed by us all, a life cut too short.



AROUND THE TRAPS

Two faces of our very own Little Johnny.

Once known as “the black-haired boy”.

A little-known fact from our legend Bill Pratt, referring to what he called John Zach in the 1960’s.



Permission to publish was obtained!

Trigg Foundry Equipment for sale

Darren Trigg sysadmin@triggbrs.com.au>

- Simpson Gerosa Universal Sand Strength Machine And Calibrator
 - Goyen Clean Air System EMS6 Particulate Emission Monitoring System
 - AD4328 Weighing Indicator In Heavy Duty Industrial Enclosure
 - Dust Collector Pulsing Controls (2 available)
 - Uras Vibratory Motors (KEE-24-6B)
 - <https://tinyurl.com/2eljkuwg>
-

Mg casting equipment available. Please direct any enquiries to AFI(Vic).

NEXT AFI VIC Meetings

How to engage with ManuFutures

Wednesday July 17 2024

5:30 pm start - SHARP

Location: Deakin University - Waurin Pond Campus

Cost: AFI / ADCA members – \$20 per person, Non-members - \$35 per person

Payment and Booking:

To assist with catering, please book your place online via

TryBooking: <https://www.trybooking.com/CTFYJ>



Deakin
UniversityMap.pdf

You will be able to print a ticket and receipt immediately.

Any problems please give me a call 0427 777 061 or drop me an email agcooke52@gmail.com



2024 Conference Update

Planning for this year's conference is well underway. To all those people who have already registered, thanks and to all those people planning to attend we encourage you to book early.

We have had a great response from sponsors with all options fully subscribed. We encourage you to support our sponsors, these events wouldn't happen without them.

The technical program is taking shape and we have the following speakers confirmed:

Our dual Keynote Speakers are:

Jack Palmer

President of Palmer Manufacturing will be sharing his vast foundry experience with us all. Topics TBC.

Dr Gary Shiflet

Ancient Copper and Bronze casting

4000 Years of Iron; Steel; Pig Iron and Cast Iron - Driving Force and Metallurgy of Human Advancement

High Entropy Alloys- Microstructure, Physical Properties and Hype.

Other speakers confirmed are:

Ben Reed – CEO of CWF Hamilton

From engineering shop to world leader manufacturer of waterjet propulsion.

Dr Roger Lumley

Developments in Titanium Casting: Opportunities and Challenges

Phil Benson – Director of A W Fraser

AW Fraser, Understanding our DNA

Finn Burchall – PhD student at University of Canterbury

High throughput Quantification of Recrystallisation Parameters with Deformation Gradients

Jet Boating

Seats are limited so get in quick to secure your spot for this exciting experience. As at the time of printing there are only 13 seats left.

Early Bird Registration

Registrations are steadily coming in, just a reminder that the discounted rate of \$595 + GST ends on the 31st of July. After this date the full rate of \$695 applies.

Accommodation

Book your discounted rate at the Crowne Plaza via this link: www.crowneplaza.co.nz/ctnzconference .

Discounted rates are applicable for 16th – 21st of October. If you want to extend your stay outside these dates book your room within those dates and then contact Phoebe directly at the Crowne Plaza Phoebe.Zwarts@ihg.com .

Check out the 2024 AFI(Vic) Program. Note that we plan to live stream all presentations, so that wherever you are in Australia you can participate. Lock in the dates now!



Australian Foundry Institute (Vic Branch) 2024 Program v2

Month	Date	Location	Topic	Presenter	AFI / ADCA Contact
Feb	Wed 21st	The Village Green Hotel	ICN Presentation	Kath Smith Andrew Mannering	Amber M
Mar	Wed 20th	Dandenong	Nissan Diecasting – site visit		Craig A (Lost Trades 9/3 - 10/3) (Careers Expo 14/3 – 16/3)
Apr	Wed 17th	The Village Green hotel	Skilled Migration - presentation	Dan Engles	Sean B / Amber M (School Hols 29/3 to 14/4)
May	Wed 15 th	Ballarat	Goldacres - agricultural equipment manufacturer Site Visit	https://www.goldacres.com.au/	Adam H (Trade Fit Expo 8/5 – 9/5)
June	Wed 19th	The Village Green Hotel	Choice Energy		Alan C (School Hols 29/6 to 14/7)
Jul	Wed 17th	Deakin University, Geelong	ManuFutures Automation (site visit) plus Richie Smyth – Aluminium (presentation)		Sean B / Alan C
Aug	Wed 21st	The Village Green Hotel	Casting Developments		Gary S
Sep	Fri 6th	Sovereign Hill, Ballarat	Annual Technologists Picnic		Gary Bunn – Materials Australia
Sep	Wed 18th	Moorabbin	Parish Engineering Metal machining Site Visit		Amber M (School Hols 21/9 to 6/10)
Oct	Wed 16th – Sat 19th	Christchurch NZ	AFI / CTNZ National Conference, Christchurch, NZ		CTNZ and AFI
Nov	Wed 20 th	The Village Green Hotel	Legends Night and AGM		Amber M/Alan C
Dec	Wed 4 th	Errols Nth Melb	Planning meeting		Alan C