

CASTINGS

NEWS & VIEWS

SEPTEMBER 2016

CONTENTS

- MESSAGE FROM THE CHAIRMAN
- CTNZ INDUSTRY CHAMPION REPORT
- CTNZ 2016 CONFERENCE
- EMPLOYMENT – JOB VACANCIES
- VICTORIAN RAIL PROJECT
- CONFERENCES AND EVENTS
- AFI & ADCA CONFERENCE 2016
- EUROPE'S NEWEST DUCTILE IRON
FOUNDRY
- BOARD MEMBER EMAIL CONTACTS

Message from the Chairman

First I must thank everyone that attended this year's conference and AGM. Wellington was a great location and put on awesome weather for us, my wife really enjoyed it too and is already asking where were going next year. Stay tuned for the next location to be revealed soon. I am sure you will all agree John Campbell was an interesting and entertaining key note speaker. I am off to the AFI conference next week, this time it is also incorporating the ADCA (Australian Die-Casting Association) conference. I will be interested to find out how the industry is handling the closure of the Ford manufacturing plants.

Dean Armiger
Chairman

CTNZ Industry Champion Report

The response to this year's conference was very positive from sponsors, speakers and registrations. I feel part of this is due to being able to secure renowned speakers. Financial support plays a very important part in being able to organize a valuable conference experience and our sponsors supported us well. Significant contributions were made by Joe Crowther, Pyrotek, IXOM, Glucina Alloys, Metcast, Inductotherm, Prime Trading and Foseco Sunday morning's AGM went without a hitch with all current board members being re-elected. Continued membership of Metals NZ was discussed and it was decided to renew for a further year. Also discussed was the increasing cost of the yearly audit and the board will pursue a better option.

I am now researching speakers and a venue for next year's conference. As the year is now rapidly disappearing I will organise an Auckland Branch industry meeting for the New Year.

Bill Lovell
Industry Champion

CTNZ Conference 2016

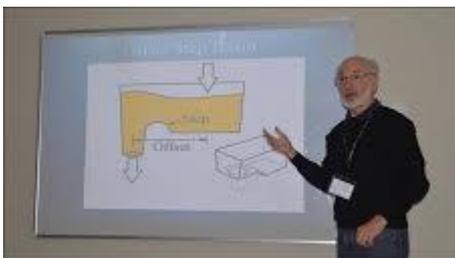
Our conference this year was held at the Intercontinental Hotel in Wellington which proved to be a good choice with its proximity to the CBD and its many restaurants, shopping and cultural attractions.

We kicked off on the afternoon of Friday 19th with an industry tour to Callaghan Innovation's Material's Research facility at Gracefield. It was very interesting and

informative visit which helps us to understand the capability and capacity of research able to be undertaken here.



Our Keynote speaker for this year's conference was Professor John Campbell from the University of Birmingham, UK. John is an Englishman of Scottish descent, educated at Cambridge, Sheffield and Birmingham as a physicist and metallurgical engineer; he has spent most of his life in foundries where he thinks he has made more castings than he has had hot dinners.



Also presenting were Dr Damian Carder (Callaghan Innovation), Milo Kral (Canterbury University), Benjamin Smith (Magma), Gary Savage (CSIRO) Assoc. Professor Sarat Singamneni (AUT) Richard Seymour-Wright (Technipro) and Jesse Keith (Callaghan Innovation)



This year we added a further 1.5 hr session on Sunday morning after our AGM to accommodate our extensive program and this was well attended

with the conference finishing at 11:30am.



Socially we enjoyed welcome drinks and canapes on Friday evening kindly sponsored by Joe Crowther. Saturday night started with pre-dinner drinks and canapes sponsored by Prime Trading followed by the Banquet dinner sponsored jointly by Glucina Alloys and IXOM. A presentation of life membership of CTNZ was made to Joe Crowther and accepted by Shaun McQuarter on his behalf.



Our partners enjoyed the advantage of the central location with easy access to boutique shopping. They then joined together for an enjoyable lunch at Wellington's renowned Shed 5 restaurant.

Employment - Job Vacancies

There has been four recent enquiries from people with foundry trade skills wishing to seek employment in New Zealand.

- **Higor Araujo**, from Brazil but now studying in Auckland, has worked in QA and Metallurgy. Email; higor_1981@yahoo.com.br

- **Pascal Blanchard**, a French production and quality engineer with 20 yrs experience who is currently in Auckland. email; pblid2002@gmail.com or Pascalblanchard2002@yahoo.fr
- **Sathyanarayanan Srinivasan**, resident of NZ currently studying Master of Engineering management at Auckland University. email; ssri946@aucklanduni.ac.nz
- **Balakrishna B Khadape**, with investment casting experience, based in India. Email; sumith.krishna11@gmail.com

Members wishing to receive CVs for any of these people please contact; Bill Lovell; bill.lovell474@gmail.com. I would be interested in hearing from any member who successfully employs someone from these applicants.

Victorian Rail Project

The Victorian Labour Government will create 1,100 highly-skilled local jobs with the state's single largest order of trains to be built in Victoria, for Victoria. Premier Daniel Andrews joined Minister for Public Transport Jacinta Allan and Minister for Industry and Employment Wade Noonan to announce that the Evolution Rail consortium, comprising Downer Rail, CRRC, and Plenary, are the preferred consortium to build Melbourne's 65 new High Capacity Metro Trains (HCMT).



This decision follows an extensive 12-month global tender process, with three competing consortia, each of which

included a world-class mix of international and local manufacturers.

All 65 of the new trains will be built in Victoria, for Victoria, with 60 per cent local content. This surpasses the Labor Government's promise of 50 per cent local content and will create 1,100 highly-skilled jobs, further cementing Victoria's reputation as a global hub of rolling stock manufacturing.

The trains will be manufactured with a strong industry participation plan that includes 15 per cent Victorian apprentices, trainees and cadets, as well as workers from disadvantaged backgrounds.

Partnerships with Toyota, Chisholm Institute and Swinburne University will help transition automotive manufacturing workers on to the project.

To build the trains, Downer's Newport manufacturing facility will undergo a \$16 million upgrade, CRRC will establish a new regional headquarters in Melbourne, and Australia's only bogie manufacturer will be established.

A new maintenance and stabling depot in Pakenham East will be built with 87 per cent local content and provide 100 new long-term ongoing jobs for the community. Nine new six-car trains will also be ordered from Alstom to meet demand on the network prior to the roll-out of HCMTs, securing work at Alstom's Ballarat workshop until at least 2019, with 114 carriages ordered.

Bombardier in Dandenong are currently delivering Victoria's VLOCITY Regional Trains and Melbourne's E-Class trams, with more than \$811 million invested in new VLOCITY and E-Class orders since 2015, and the option for further contract extensions in the future.

The Government is also developing a business case for a Next Generation Regional Train, a major diesel train contract expected to go to market by 2018 to deliver hundreds of new regional carriages for the V/Line network.

These new trains and trams are all part of Victoria's 10-year Rolling Stock Strategy, with more than \$3 billion already invested

in a long-term order book of new and upgraded trains and trams since the start of 2015.

Several New Zealand companies are already well established in the existing train build supply chain for machined castings, body components and air conditioning. NZ companies are well respected by the Victorian Industry Capability Network.

Conferences and Events

AFI 51st & 16th ADCA Conference 2016

Where: Deakin University – Waterfront Campus, Geelong, Victoria, Australia.

When: 9th to 11th October 2016

Register:

<http://www.afivictoria.org.au/registration>

AFI & ADCA Conference 2016

‘CASTING EXCELLENCE – Innovation & Success’

This conference will attract a broad spectrum of participants, including Business Owners, Managers and Operators, Industry Regulators, Researchers, Foundry Engineers and Industry

Participants will gain a strong understanding of the changes taking place in the business and technology of the casting and manufacturing industry, in Australia and a global perspective. Papers will cover topics such as:

Collaborative research in the casting industry.

Surviving in a high cost manufacturing environment.

Advanced manufacturing and the application of technology in the casting environment.

Industry regulation.

Opportunities in the resource industry.

Casting methods, simulations.

Die Casting Die Design and Manufacture.

Elimination of defects – gas porosity, shrinkage porosity, cold flow, flash etc.

A special theme of this conference is the Industry Collaboration through Deakin University, a linkage into practical research and application into industry. This

conference will feature local and international speakers who are experts in their fields, bringing delegates the latest developments and technologies in foundry equipment, processes, technology, safety, markets, leadership and research.



Keynote speaker: Professor Peter Hodgson
Professor Hodgson was Victoria’s first Australian Laureate Fellow. He was Pro Vice-Chancellor Strategic Partnerships (from 2015) and Director of the Institute for Frontier Materials. Prior to that he was Professor of Engineering and Head of the School of Engineering and Technology at Deakin University.

Professor Hodgson has over 600 research publications and has presented more than 40 keynote lectures at international conferences related to the physical metallurgy and modelling of steels. In 2004 Professor Hodgson was made one of the inaugural Alfred Deakin Professors and also awarded a Federation Fellowship from the Australian Research Council. He received a Doctoris Honoris Causa from the University of Valenciennes in France for contributions to metal forming in 2005 and a Faculty Medal from AGH Poland in 2006 in 2006 for contributions to Materials Science.

Joining AFI conference this year will be the Australian Die Casting Association, with trade displays, technical forums and training, promoting research and development in Die Cast Technology.

Europe's Newest Ductile Iron Foundry

Europe's newest grey and ductile iron foundry to be opened in 2017.

On 26th July 2016, Cranfield Foundry held a ground-breaking ceremony in Probishtip, The Republic of Macedonia, to mark the start of construction of a modern foundry. It is forecasted that the production will begin in 2017. In the presence of Macedonia's prime minister, deputy prime minister, minister of foreign investments, the mayor of the city of Probishtip and other distinguished guests, the shareholders and the CEO of Cranfield Foundry laid the first cornerstone of the 8,000m² foundry.

The project was initiated in 2014 with the first steps being to build a team and find quality partners to ensure successful execution of this greenfield investment. Designed for Cranfield Foundry by turnkey solutions provider GEMCO - the new facility will be able to produce grey iron castings of EN-GJL 150-350 and other related grades, along with ductile iron castings of EN-GJS 350-800 and other related grades.

The foundry equipment has been commissioned from some of the most well-known suppliers in the industry. DISA and ABP will provide the key components of the foundry which will produce a wide range of products such as fittings, valves, decorative and other custom-made quality castings for customers in diverse industries such as automotive, agriculture, railway, construction, oil and refinery.

Board Members Email Contacts

Should you have any queries or require assistance, please feel free to contact a Board member.

Dean Armiger, Chairman

darmiger@carlontaylor.co.nz

Gordon Muldrew,

gordonmuldrew@metcast.com

Craig Smith

craig.smith@hamjet.co.nz

Robin Stanley

robsta@pyrotek-inc.com

Darryl Bruce

darryl.bruce@ixom.com

Bill Lovell

bill.lovell474@gmail.com

(Industry Champion/Secretary)