

CASTINGS

NEWS & VIEWS

DECEMBER 2017



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CTNZ Industry Champion Report

Well another year comes to a close but this year the summer weather has been hot, a welcome change from previous years. It has been a challenging year for our foundry industry with the loss of two well established foundries, A&G Price and Hydroflow,

formerly Mace Engineering. A reminder of how beneficial it is being a member of Casting Technology New Zealand and staying abreast of new foundry principals. This Christmas holidays I find myself again chasing that elusive 20 pound Salmon but rest assured I will be spending time in the central Otago channels trying to fulfil my dream. With a lot of luck I will be able to put a picture of it in our next newsletter Thank you to my fellow board members for your support throughout the year. Have a very good Christmas and a prosperous new year.

Dean Armiger
Chairman

CTNZ Industry Champion Report

I have been trying to update our website information and recently sent out a form to eligible members to update their information. I thank those who have returned them and ask that if you have not yet done so can you please fill it in and return it to me. A change to our constitution to reduce the annual cost of auditing was proposed at our AGM and this has now been formally registered with the NZ Companies office.

There is a rumour that our South Island Board members are trying to arrange an interesting visit for their branch meeting in February. This visit could also be of interest to members in the North Island so let's hope that they can pull it off.

I would like to wish you all an enjoyable festive season and a prosperous New Year.
Bill Lovell
Industry Champion

2018 CTNZ Conference

We are now planning our annual conference for 2018 which is to be held in August. At this stage the preferred location is Napier. We are hoping that this venue will be attractive to visit and that we can increase the attendance.

If anyone has a subject or particular speaker that you feel would add to the conference please let me know so that I can get to work on it.

Employment - Job Vacancies

Recently I have only received one employment application enquiry. P Parthiba who is an experienced Casting Product Modelling and Process Simulation engineer based in West Bengal. Email; parthipalani20@gmail.com
If you are interested in this applicant and want his CV please contact me.

Conferences and Events

The 22nd Global Foundry Sourcing Conference will be held in Shanghai on 26th April. 2018

Where: Shanghai

When: 26th April 2018

<http://castings.foundry.cn/>

AUT Engineering Looking for Projects

AUT is currently looking for new Design or Research and Development projects to give to their 2018 engineering students. Please let us know if you would like to engage a student to work on one of your project ideas. Providing students with 'real-world' projects helps us to remain industry relevant and equips the students with valuable experience of working with industry. It's also the perfect opportunity to get non-critical engineering work done at a minimal cost, whilst connecting with the next generation of engineering talent.

Students in Electrical, Electronic and Mechanical Engineering from both the 3-year

Bachelor of Engineering Technology (BET) and the 4-year Bachelor of Engineering (Honours) programme are available, depending on the nature and scope of work. If you have a project that you would like to submit, please follow the link below and complete the short form.

Projects run from March – October 2018
Each student is allocated an AUT supervisor
No costs are involved, unless significant material costs are incurred.

If you'd like more information, **visit our industry projects page** or contact Andrew.hilton@aut.ac.nz.

Worksafe Exposure Standards

WorkSafe New Zealand has issued the 9th edition of the *Workplace Exposure Standards and Biological Exposure Indices* publication. You can download the document [here](#)

Workplace exposure standards (WES) and biological exposure indices (BEI) are important values for monitoring worker exposure to particular substances and assessing what level of control is required, and whether the risks to worker health are being managed effectively.

The principal changes from the previous edition of the publication are summarised in the Preface on page 2 and include new WES values for trichloroethylene, 1,2,3-trichloropropane, vinyl bromide and vinyl chloride. Changes to WES and BEI for lead will take effect 2 years from the date of publication of this 9th edition.

The new WES values are:

- ☐ Trichloroethylene – 10 ppm as an 8-hour time-weighted average exposure and 25 ppm as a short term exposure limit.
- ☐ 1,2,3-Trichloropropane – 0.005 ppm as an 8-hour time-weighted average exposure.
- ☐ Vinyl bromide – 0.3 ppm as an 8-hour time-weighted average exposure.
- ☐ Vinyl chloride – 1 ppm as an 8-hour time-weighted average exposure.

The WES-TWA for lead, inorganic dusts and fumes, as Pb, will change to 0.05 mg/m³ as

an 8-hour time-weighted average exposure, in November 2019. At the same time the following biological limits will take effect for lead in blood:

☐ A BEI of 20 µg/dL (0.97 µmol/L) of whole blood

☐ A suspension (removal) level of 30 µg/dL (1.45 µmol/L) of whole blood for females not of reproductive capacity, and males

☐ A suspension (removal) level of 10 µg/dL (0.48 µmol/L) of whole blood for females of reproductive capacity, and those pregnant and/or breastfeeding.

Any questions regarding WES or BEI should be directed to technicall@worksafe.govt.nz

Worksafe Hazardous Substances

On 1 December the Health and Safety at Work (Hazardous Substances) Regulations 2017 will come into force. The aim is to reduce both the immediate harm to people and longer-term illness caused by hazardous substances in the workplace.

It's no small matter. A hazardous substance is any product or chemical that has explosive, flammable, oxidising, toxic or corrosive properties – and they're everywhere. Around one in three New Zealand workplaces use, manufacture, handle or store them. This includes factories, farmers and growers, as well as printers, collision repairers, hairdressers and retailers. They are in commonly used products such as fuels and LPG, solvents, cleaning solutions and agrichemicals.

"Used safely, hazardous substances can contribute to the nation's economic growth and prosperity," WorkSafe's General Manager Operations and Specialist Services Brett Murray says, "but they also pose real risks to the people working with or around them.

"The harm from inhaling toxic vapours or having contact with some substances is often unseen. Workers may be unaware they are being exposed, and the effects of exposure may not be seen for many years."

Hazardous substances are a major contributor to the estimated 600-900 deaths and 30,000 cases of serious ill health from work-related disease each year in New Zealand. This is in addition to the fatalities and immediate harm through accidents, such as fires and explosions, and unsafe use.

"It's time this changed," says Mr Murray.

"The Regulations bring an expectation on all those working with hazardous substances to know what those substances are, the risks they pose and how to manage those risks." What's changing? On 1 December the rules for managing hazardous substances in the workplace are moving from the Hazardous Substances and New Organisms Act 1996 (HSNO) to the Health and Safety at Work Act (HSWA). Many of the existing requirements will continue. However there are some changes to improve the management of these substances at work.

"If you use or store these substances, you need to look at what has changed under the new Regulations to ensure you are meeting your obligations to protect workers," Mr Murray says.

As well as looking at what is changing, Mr Murray says people need to remember there is already legislation in place they should be complying with.

"If you are following the current rules, you may only need to do a few things differently, but now is the ideal time to review your management of hazardous substances and ensure you are doing your duty to protect people from harm."

Businesses will already be familiar with the HSWA approach to managing work-related health and safety risks. From 1 December this includes hazardous substances. It's another step in helping to ensure our people get home healthy and safe.

[WorkSafe's website](#) has information, guidance and [FAQs](#). Its online [Hazardous Substances Toolbox](#) has tools to help. You can also subscribe to the [Hazardous Substances Update](#).

The Health and Safety at Work (Hazardous Substances) Regulations 2017 are available on the [New Zealand Legislation website](#). For more information: WorkSafe media phone 021 823 007

When do the Regulations come into force?

1 December 2017. There are some [later commencement dates and transitional arrangements](#) that have been summarised on the WorkSafe website.

What are hazardous substances?

Hazardous Substances are substances that are explosive, flammable, oxidising, toxic, or corrosive. (Substances toxic to the environment will continue to be regulated by the Environmental Protection Authority under the HNSO regime.)

A hazardous substance may be a single chemical or a mixture of both hazardous and non-hazardous chemicals.

Why this change?

Hazardous substances were identified by the Independent Task Force on Workplace Health and Safety (set up after the Pike River Mine explosion) as a key area of work-related health and safety that needs to improve.

The reforms will help reduce both immediate harm and longer term illnesses caused by the work-related use of hazardous substances. It will do this by simplifying the regulatory landscape for hazardous substances. This will make it simpler for businesses to understand their obligations and comply with the law by bringing different sets of rules together into one place.

What's changing?

The rules for the work-related use of hazardous substances move from the Hazardous Substances and New Organisms (HSNO) Act 1996 to regulations under the Health and Safety at Work Act 2015 (HSWA). Responsibility for administering those rules will shift from the Environmental Protection Authority to WorkSafe New Zealand. The regulations come into force on 1 December. Until then the rules under HSNO continue to apply.

It's not about wholesale change. The work-related regulation of hazardous substances is

moving from one Act and set of regulations to another, but with some changes. If you are complying with the current hazardous substances law, then you may not need to change a lot but this is an important time for all businesses to review their processes for keeping people safe around hazardous substances.

Who does it affect?

Organisations and individuals that manufacture, use, handle, store or supply hazardous substances. Some of the changes relate to specific substances, substance classes or quantities. The regulations also place duties on those who design, manufacture, construct, import, supply, install, or use equipment, such as tanks and cylinders used to contain hazardous substances, and their fittings.

What does it mean for the rules relating to the environment?

Environmental controls for hazardous substances will remain under the Environmental Protection Authority (EPA).

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EMEX 2018

A reminder that coming up next year is the bi-annual EMEX show at the Auckland showgrounds from 1st to 3rd May. CTNZ has supported members exhibiting for the last 2 shows and has committed to a stand for the 2018 show. The deal is that CTNZ shares the stand with as many members' exhibits as possible and the cost will be shared equally. The 2014 show attracted several foundries who returned to exhibit in the 2016 show. Exhibition stand bookings for the 2018 show are already considerably more than previously and the organisers are anticipating a much larger attendance.

Although it is still early, if you are interested in exhibiting please let me know as there is quite a bit of planning for this event. Please contact Bill Lovell.

Board Members

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

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