

Design of welded structures seminar - Auckland.

Connect with Professor Adolf Hobbacher - one of the leading fatigue experts who has an extensive background in engineering.

Besides corrosion and brittle fracture, fatigue is the main source (more than 75%) of failures or degradation of steel structures.

This poses a significant cost for the owners and operators of such structures - and beside the financial aspects, the possible risk to human life and health is a major consideration to assess.

To avoid premature failures and high maintenance costs, design procedures should be based on state of the art technical standards and guidelines.

The design for welded structures seminar will cover a range of fatigue assessment techniques to address this. Focusing on a widely used assessment based on a nominal stress method as used in AS/NZS 5100.6, NZS 3404.1 and AS 4100 as well as IIW Guideline "Fatigue design of welded structures".

There will also be work examples to demonstrate the application of the assessment methodology, as well as cover design to avoid brittle fracture with reference to our HERA guideline currently in development. This will effectively extend the range of steel and temperatures supplementing brittle fracture requirements of NZS 3404.1 and AS/NZS 5100.6.

Who should attend?

Perfect for designers, structural engineers, mechanical engineers, fabricators, welding engineers & supervisors, quality control, maintenance & inspection personnel or consultancy engineers.

Why seize the opportunity?

You'll get:

- a selection of steel you can use to avoid brittle fracture,
- the basics of fatigue,
- effects of materials, corrosion & temperature,
- understanding of fatigue analysis based on the "classic" easy-to-use nominal stress approach
- work examples of fatigue assessment
- fabrication quality control and inspection
- the newest fatigue related developments in science and technology
- real examples of failures due to fatigue
- a forum to discuss individual problems and case studies.

Auckland: 21 February, 2020

Sponsored by:



Early bird (before COB 31 January 2020):

Platinum Ordinary: \$450 per person

Gold Associate: \$550 per person

Non members: \$700 per person

Get more bang for your buck at our Auckland based seminar!

Add on optional extras both before and after the design of welded seminar and make the most of your day with us!

Optional extras

Because our Auckland based seminar runs in parallel to our Future Forum 20/20 VISION conference, you have the chance to level up!

- **Cluster workshop** - featuring Gijs Van der Velden from MX3D and Des Watkins from Watkins Steel, who will run workshops on design of welded structures using robotics, and developing a four-step end-to-end digital process for steel fabrication, utilising 3D scanning, digital twins, augmented reality and automation.
- **Nation breakfast** - if the future of our workforce isn't on your mind, then it should be! The skills crisis, labour shortages, attracting & retaining staff & the future of work are massive challenges for our industry - and Nation breakfast is geared towards tackling them.
- **20/20 VISION** - featuring Futurist Chris Riddell, who is a great point of reference to future trends that might affect the metals industry and how we design and use this material, and Gijs van der Velden who founded the company MX3D in the Netherlands
- **Nation dinner** - finish off your day in style and attend this fantastic networking opportunity or even host clients for the evening at our gala dinner and Industry Awards.

Auckland agenda

Time	Program
12.30pm	Registration
1.00pm	Selection of materials to avoid brittle fracture
1.45pm	Basics of fatigue, effects and influences
2.30pm	Afternoon tea
2.45pm	Application of the design codes and guidelines
3.30pm	Work examples and case studies
4.15pm	Weld quality, fabrication and inspection requirements
5.00pm	Close



Thursday 20 February.

1245pm – 6pm, Grand Millennium Hotel

Cost: \$172.50



Friday 21 February.

7am – 9am, Aucklander Room

Cost: \$75



Friday 21 February.

9am – 1230pm, Aucklander Room

Cost: \$400 (normally \$550 for 20/20 VISION attendees)



Friday 21 February.

6pm – 1100pm, Aucklander War Museum Events Centre

Cost: \$230

Invest in your future today!
www.hera.org.nz/events

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