

REGISTRATION

Complete the details below and return to HERA
Fax: 09 262 2856, Email: admin@hera.org.nz
Telephone: 09 262 2885, Web: www.hera.org.nz

VENUE – PLEASE TICK

- Auckland 18 October 2010
- Hamilton 19 October
- Palmerston North 21 October
- Christchurch 27 October

Venues to be advised

Surname : _____
(PLEASE PRINT)

First Name : _____
(PLEASE PRINT)

Organisation : _____

Address : _____

Telephone: _____ Fax : _____

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PAYMENT DETAILS:

- Please invoice (HERA members only)

Membership No. _____

- Cheque enclosed (Make cheques payable to HERA)

Please debit: Visa Mastercard

Card number: _____

Name on card: _____

Expiry date : _____

Signature: _____

STAINLESS STEEL IN NEW ZEALAND

The food and dairy industry, the largest sector of New Zealand economy, is heavily reliant on stainless steel as the material for processing plant and equipment.

In 2008, according to Statistics NZ, almost 24,000 tonne of stainless steel hot-rolled plates and bars and 131 ton of stainless steel welding consumables were imported into NZ.

It is reasonable to assume that the most of this steel is subject to the fabrication process involving welding. It is critical that the manufacturing process optimises the corrosion performance of the material through best practice cutting, welding and post weld treatment.

HERA in association with NZ Stainless Steel Development Association invited Dr Damian Kotecki, one of the world's leading experts on stainless steel fabrication, to share his valuable knowledge with our industry.

This seminar will outline key principles and differences to assist fabricators to meet the challenges of the near future. Do not miss this opportunity!

SEMINAR FEES (GST incl)

NZSSDA Members	HERA Ordinary, Affiliate	HERA Associate, SCNZ, CBIP, SESOC, IPENZ Members	Non Members
\$295*	\$345	\$395	\$445

Fees include coffee/tea, lunch and course notes

*) Thanks to the special sponsorship of NZSSDA. For NZSSDA membership please email: admin@hera.org.nz

Persons enrolled who wish to cancel must do so in writing. Up to fourteen days prior to a module a 10% administration deduction fee applies. Between seven to fourteen days prior, a 50% deduction applies, less than seven days no refund applies.

October 2010

Welding of Stainless Steels

1-Day Seminar with world authority
Dr Damian Kotecki



HERA
Innovation in Metals

In Association with

Stainless NZ
New Zealand Stainless Steel Development Association

INTERNATIONAL EXPERT SPEAKER



Dr Damian Kotecki has enjoyed a 45 year career in welding, from hands-on welding training, through university education and teaching, to professional experiences at Battelle Memorial Institute. He worked for 18 years with

The Lincoln Electric Company USA where he was Technical Director for Stainless and High Alloy Product Development in the company's Consumable R&D Department.

He is an expert in the area of welding metallurgy, particularly as it relates to stainless steels and hardfacing alloys. Dr. Kotecki holds five US patents and is the author of more than 60 papers and published articles on arc welding science. He recently co-authored, with Dr. John Lippold of The Ohio State University, a textbook on Welding Metallurgy and Weldability of Stainless Steels.

Dr Kotecki was the President of the American Welding Society (AWS) 2005 - 06.

He has presented lectures at major technical conferences around the world as well as teaching tutorial seminars on welding of stainless steels, in the USA and in Argentina, Australia, Chile, China, India and South Africa.

Dr Kotecki has been a continuous participant in the activities of the International Institute of Welding (IIW) Commission II Arc Welding and Filler Metals for 32 years. In that role he spearheaded the successful effort to develop physical standards for calibrating instruments for ferrite measurement in stainless steel weld metals. These physical standards are still current today.

SEMINAR CONTENT

This seminar addresses correct handling, avoiding contamination, pickling, passivation, housekeeping and other issues within the context of welding metallurgy. The full range of stainless steels is covered in the Seminar content, as well as processes and consumables including covered electrodes, submerged arc wires and fluxes, gas tungsten arc wires and gases and flux cored arc electrodes and gases.

SEMINAR OUTLINE

- I. Introduction to stainless steels – a brief history
- II. Welding of martensitic stainless steels
 - A. Typical industrial alloys
 - B. Metallurgical features affecting welding
 - C. Welding procedures
- III. Welding of ferritic stainless steels
 - A. Typical industrial alloys
 - B. Metallurgical features affecting welding
 - C. Welding procedures
- IV. Welding of austenitic stainless steels
 - A. Typical industrial alloys
 - B. Need for ferrite and measurement of ferrite
 - C. Other metallurgical features affecting welding
 - D. Welding procedures
- V. Welding of duplex stainless steels
 - A. Typical industrial alloys
 - B. Metallurgical features affecting welding
 - C. Welding procedures
- VI. Welding of precipitation hardening stainless steels
 - A. Typical industrial alloys
 - B. Metallurgical features affecting welding
 - C. Welding procedures
- VII. Filler metal classifications
 - A. AWS and EN ISO systems
 - B. How to convert good filler metals into bad welds

SEMINAR TIMETABLE

08:45	Registration
09:00 - 12:45	Session 1
12:45 - 13:30	Lunch
13:30 - 17:00	Session 2
17:00	Close

WHO SHOULD ATTEND?

Personnel: Materials Engineers, Corrosion Engineers, Designers, Specifiers, Consultants, Production Managers, Maintenance Managers, Welding Engineers and Supervisors, QA Managers, Consumers, Educators, Technical Welding Representatives and Stainless Steel Sales people.

Industries: Construction and Food, Fabrication, Tankage, Naval, Process Plant, Oil and Gas, Offshore, Architectural, Mineral Process, Building, Marine, Pressure Equipment, Manufacturing, Quality Assurance, Maintenance, Transport, Inspection, Wine, Pulp and Paper,

FURTHER TRAINING

HERA offers the International Welding Specialist (IWS) and AS 2214 Welding Supervisor Course covering fabrication aspects of stainless steels. Please contact us for any further information: email: welding@hera.org.nz, Phone: (09) 262 4849

SEMINAR PROUDLY SUPPORTED BY



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A world of joining experience