

THE NORDIC WELDING CONFERENCE BRINGS INTERNATIONAL WELDING EXPERTS TO TAMPERE



The Nordic Welding Conference has for long been recognised as a premier event for Nordic and international welding professionals. The first edition of the Conference, entitled "Nordiska Svetsmötet," was held in Stockholm, Sweden, and since 1948, the event has been organised by turns every two to three years in one of the Nordic countries: Sweden, Norway, Denmark, Finland and Iceland. The Conference highlights

topics of major relevance to the industry, addressed by a line-up of renowned international keynote speakers, while also providing an all-important forum for networking and the sharing of best practices. The Conference is an IIW associated event, hosted by The Welding Society of Finland (Suomen Hitsausteknillinen Yhdistys), a longstanding member of The International Institute of Welding (IIW).













Welcome to Nordic Welding Conference

Jouko Lassila Executive Director The Welding Society of Finland IIW Director

PLENARY SESSIONS 12.00 - 16.15

Formal Opening of the Conference Jouko Lassila, Executive Director of The Welding Society of Finland

Welding in the Future - What do we need and what do we have to do to be competitive in

Prof. Gary B. Marquis, IIW President 2014-2017

Overview of industrial welding in Nordic countries:

- · Denmark, Steen Ussing
- Norway, Dag Syvertsen
- Sweden, Lars Johansson
- · Finland, Ismo Meuronen

COFFFF BREAK

Welding work in Poland - Relocation of production Ilkka Nikkilä, Mesera Oy

14.40 - 16.00

For the Future!

Modern production automation for welding industry

Jari Tervolin, Pemamek Oy Ltd

Process simulation and remote programming Heikki Aalto, Delfoi, Finland

Kemppi ARC System - KAS 3 Pertti Kaarre, Kemppi Oy

Welding of the copper canister for nuclear waste by FSW - current development work and future implementation Tero Purhonen, Posiva Oy

Summary and overview of the next conference

GALA DINNER. RESTAURANT NÄSINNEULA 20.00-23.00

THURSDAY 6.11.

9.30 - 12.30HIGH STRENGTH STEELS AND APPLICATIONS Chair: Kari Mäntyjärvi, University of Oulu

> High strength steels - research and applications in Finland

Kari Mäntyjärvi, University of Oulu

Ultra-high-strength hot-rolled steels Jukka Kömi, Rautaruukki Corporation

Material technology - Stainless steels Hannu-Pekka Heikkinen, Outokumpu Tornio Works



COFFEE BREAK

Usability of UHS steels using heat treatments Antti Järvenpää, University of Oulu

Next generation ultra-high-strength harvester cranes

Risto Heikkilä, Logmer Forest Oy

High strength steel welding research results Sami Heikkilä, University of Oulu



13.30 - 16.30LASER WELDING

Chair: Antti Salminen, Lappeenranta University of Technology

Potential of laser welding in large component production

Antti Salminen, Lappeenranta University of Technology

Design and manufacturing aspects when laser welding ultra-high-strength steel-intensive car bodies Jonny K. Larsson, VOLVO Ab, Sweden

Autogenous laser welding of butt joint - effect of the preparation

Mikko Vänskä, Lappeenranta University of Technology



Case: Laser welding application Erkki Virkki, Machine Technology Center Turku Ltd

Formation and avoidance of undercuts in laser-arc hybrid welding

Alexander Kaplan. Luleå University of Technology

Laser cladding with scanning optics Joonas Pekkarinen, Lappeenranta University of Technology

9.30 - 12.30

ROBOT WELDING AND AUTOMATION – PRODUCTIVITY

Chair: Jyrki Latokartano, Tampere University of Technology (The Robotic Society in Finland)

> Robot welding in Finland – from past to present Jyrki Latokartano, The Robotic Society in Finland

Multi-robot welding in small batch production Tero Haapakoski, HT Laser Oy

WeldControl solutions in automated welding Matti Lahtinen, Pemamek Oy Ltd



Aluminium laser welding in battery production Jyri Kylä-Kaila, Valmet Automotive Oy, Finland

Mobiweld - Mobile friction stir welding (FSW) system for aluminium structures Tapio Heikkilä, VTT, Finland



13.30 - 16.30**DESIGN OF WELDED STRUCTURES** Chair: Pedro Vilaça, Aalto University

Friction stir welding - new possibilities for designers Pedro Vilaça, Aalto University

Design for laser welding N.N.Trumpf, Germany



Capacity of ultra-high-strength structural steels in welded applications Ilkka Valkonen, SSAB

COFFEE BREAK

Square root classification of welds: -Effective and illustrative sizing of welds Heikki Holopainen, Foster Wheeler Energia Oy

COCKTAIL RECEPTION, TAMPERE CITY HALL 18.30 - 20.00

Please note that the programme may be subject to change.

CONFERENCE INFORMATION

DATES: 5.-6.11.2014

VENUE: Tampere Exhibition and Sports Centre

-TESC, Ilmailunkatu 20, 33900 Tampere,

Finland

CONFERENCE

FEES: Registration for one day, 250 €

(Incl. 0% VAT)

Registration for two days, 480 €

(Incl. 0% VAT)

REGISTRATION: For registration enter: www.hitsaus.net

Registration is open until 31st October.

ACCOMMODATION:

To make your booking, please contact the hotel directly and quote the allotment code **NWC 2014**. The special Conference

rates will be valid until 10.10.2014.

After this date, rooms will only be offered subject to availability and special rates can

there fore not be guaranteed.

HOTEL: Solo Sokos Hotel Torni Tampere

Ratapihankatu 43, 33100 Tampere

Tel. +358 20 1234 634, Fax. +358 10 7841 203,

E-mail: sales.tampere@sokoshotels.fi

ROOM RATES: Single room (Solo)

145 € per night

Double room (Solo Twin/Queen)

165 € per night

Prices include breakfast, sauna access

and VAT.

BOOKINGS: Sokos Hotels Booking Centre

Mon-Fri 08.00 – 20.00 (UTC+2)

Tel. +358 20 1234 600, Fax +358 20 1234 647 sokos.hotels@sok.fi

HOW TO GET TO TAMPERE:

Tampere constitutes the northernmost point of the triangle formed by Finland's three major cities: Tampere, Helsinki and Turku. It is within easy reach, less than two

hours by train or by car from both coastal cities, although it is even more conveniently

accessible by air.

Connections from Tampere city centre to the Tampere Exhibition and Sports Centre are regular, reliable and very

flexible.

THE WELDING SOCIETY OF FINLAND:

The Welding Society of Finland provides information about welding and related technologies, manages IIW/EWF welding education and qualification in Finland and publishes Hitsaustekniikka magazine.

FOR FURTHER INFORMATION:

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www.hitsaus.net

www.nordicweldingexpo.fi



