



# 7th International Congress Aluminium Brazing



## Organiser:

DVS – Deutscher Verband für Schweißen  
und verwandte Verfahren e. V. (German Welding Society)



### **The International Aluminium Brazing Congress,**

which is now being held for the seventh time, will be organised by DVS - Deutscher Verband für Schweißen und verwandte Verfahren e. V. (German Welding Society) and will take place from 22 - 24 May 2012 in Düsseldorf/Germany.

The congress location is the Radisson Blu Scandinavia Hotel.

Leading specialists and authorities from the sector, well known experts from industry and research and other important decision makers from this field will further promote surface technology by means of presentations, comments and technical discussion.

The congress language is English.

The congress will, of course, also deliberately provide numerous opportunities to establish or strengthen business relationships, establish personal contacts and expand networks.

An exhibition of participating companies running in parallel with the congress will help getting further contacts.

08.30 – 10.30 **Registration**

10.30 – 10.45 **Welcome / Introduction**

## Session A – Opening Presentations

10.45 – 11.30 **Trends in joining technology production, value added and employment by joining**  
**Dr. Klaus Middeldorf**  
 DVS – Deutscher Verband für Schweißen  
 und verwandte Verfahren e.V.  
 Düsseldorf/Germany

## Session B – Materials

Chair: Dr. Raimund Sicking

11.30 – 12.00 **Recent trends in material developments for automotive heat exchangers**  
**Alan Gray**  
 Innoval Technology Ltd.  
 Banbury/United Kingdom

12.00 – 12.30 **New clad fin material with high post braze strength and excellent sagging resistance**  
**Annika Carlsson**  
 Sapa Technology  
 Finspang/Sweden

12.30 – 13.30 **Lunch**

13.30 – 14.00 **Next generation HYBRAZ™ coated products**  
**Dagmar Steiner<sup>1</sup>**,  
 Dr. Jan Halvor Nordlien<sup>2</sup>, Jeffrey Insalaco<sup>3</sup>  
 Hydro Aluminium PTTC Løgumkloster/Denmark<sup>1</sup>  
 Hydro Aluminium PTTC Karmoy/Norway<sup>2</sup>  
 Hydro Aluminium Precision Tubing NA, Rockledge,  
 FL/USA<sup>3</sup>

14.00 – 14.30 **Material requirements for heat exchanger applications**  
**Dr. Gerhard Hanko**, Andreas Hajek  
 AMAG rolling GmbH  
 Ranshofen/Austria

14.30 – 15.00 **Coffee**

15.00 – 15.30 **Industrial coating application from MPE Tubes**  
**Peter Wöstmann**  
 Hymmen Industrieanlagen GmbH  
 Bielefeld/Germany

15.30 – 16.00 **Hydro multiclاد materials**  
**Dr. Hartmut Janssen<sup>1</sup>**, Dr. Volker Saß<sup>1</sup>,  
 Dr. Raimund Sicking<sup>2</sup>, Manfred Mrotzek<sup>3</sup>  
 Hydro Aluminium Rolled Products GmbH,  
 R&D Bonn/Germany<sup>1</sup>  
 Hydro Aluminium Rolled Products GmbH,  
 Grevenbroich/Germany<sup>2</sup>  
 Hydro Aluminium Rolled Products GmbH,  
 Hamburg/Germany<sup>3</sup>

## Session C – Applications

Chair: Dr. Raimund Sicking

16.00 – 16.30 **Brazing of aluminium to stainless steel by various methods**  
**Bob Ward**, Dr. David Warrington  
 TMCCL The Metals Consultancy Company Ltd.  
 Leeds/United Kingdom

**Session D – Equipment**

Chair: Alan Gray

09.30 – 10.00 **Flame brazing machinery – a transition from Themis to PP-Tech completed**

**Pavel Prochazka**, PP-Tech, s.r.o.  
Roznov/Czech Republic

10.00 – 10.30 **Low volume CAB furnaces by SECO/WARWICK**

**Andrzej Bielewicz**, Piotr Skarbinski  
SECO/WARWICK S.A.  
Swiebodzin/Poland

10.30 – 11.00 **Coffee**

**Session E – Process and Quality Control**

Chair: Dr. Doug Hawksworth

11.00 – 11.30 **New bench for corrosion test by exhaust gas condensates on low pressure aluminum brazed EGR, and ACAC**

**Jose Garcia Zaldivar**  
VALEO Engine Cooling  
La Verrière/France

11.30 – 12.00 **Sustainable influence on process capability and overall equipment effectiveness**

**Ansgar Tasche**  
Schoeler Spezialmaschinenbau GmbH  
Pansdorf/Germany

12.00 – 12.30 **Tube alloy development for global sourcing**

**Dr. Jan Halvor Nordlien**<sup>1</sup>, Dr. Arvid Espedal<sup>2</sup>,  
Ole Daaland<sup>1</sup>, Hydro Aluminium Precision Tubing  
Technology Centre, Karmoy/Norway<sup>1</sup>  
Hydro Aluminium Precision Tubing Technology  
Centre, Logumkloster/Denmark<sup>2</sup>

12.30 – 13.30 **Lunch**

**Session F – Research and Development (Part I)**

Chair: Dr. Hans-W. Swidersky

13.30 – 14.00 **Brazing and corrosion performance considerations of pre-coated MPE for brazed heat exchangers**

**Antonio Baldantoni**  
Sapa HE Tubing  
Louisville, KY/USA

14.00 – 14.30 **An innovative surface nano-technology in the CAB-process**

**Peter Englert**  
Behr GmbH & Co. KG  
Stuttgart/Germany

14.30 – 15.00 **Trillium technology - aluminium brazing with a composite liner**

**Dr. Doug Hawksworth**  
Sapa Heat Transfer, Oakville/Canada  
Dr. Richard Westergard, Sapa Technology, Finspang/  
Sweden, Dr. Andrew Ogilvy, Sandvik Osprey, Neath/  
United Kingdom

15.00 – 15.30 **Selective pre-fluxing with adhesives – fashion or progress paint fluxing – pros and cons**

**Dr. Orman Leszek**  
Solvay Fluor GmbH  
Hannover/Germany

15.30 – 16.00 **A corrosion study of brazed aluminium heat exchangers after field service**

**Marja Melander**  
Sapa Technology, Finspang/Sweden  
Ralph Woods  
Consultant to Sapa Technology, Pleasanton, CA/USA

16.00 – 16.30 **Coffee**

18.00 (-22.30) **Social Evening Event**

**Session F – Research and Development (Part II)**

Chair: Dr. Hans-W. Swidersky

09.30 – 10.00 **Approach for al brazing with nano filler metals**

**Dr. Matthias Türpe**  
Behr GmbH & Co. KG  
Stuttgart/Germany

10.00 – 10.30 **Correlation between atmospheric conditions and brazeability of aluminium using different surface activation methods**

**Prof. Dr. Uwe Füßel**  
TU Dresden  
Dresden/Germany

10.30 – 11.00 **Coffee**

**Session G – Testing**

Chair: Dr. Rainer Mittelstädt

11.00 – 11.30 **Investigation of the interaction between aluminum materials brazed with non-corrosive flux and coolant additive technologies**

**Dr. Serge Lievens**  
Chevron Belgium nv, Gent/Belgium  
Dr. Placido Garcia-Juan  
Solvay Special Chemicals  
Bad Hönningen/Germany

11.30 – 12.00 **Exhaust condensate – corrosivity of selected constituents on brazed aluminum**

**Thomas Feldhege**, Dr. Katja Müller,  
Dr. Sophie Wörner  
Modine Europe GmbH  
Filderstadt/Germany

12.00 – 12.30 **Waterside corrosion protection in brazed heat exchangers: mechanisms, test methods and recent improvement in performance**

**Dr. Herve Ribes**, Dr. Andreas Afseth  
Constellium  
Biesheim/France

12.30 – 13.00 **Closing Remarks**

13.00 – 14.00 **Lunch**

## Registration and further information

Registration should be made in writing by returning the completed registration form to:

DVS - Deutscher Verband für Schweißen  
und verwandte Verfahren e.V.  
Aachener Straße 172, 40223 Düsseldorf/Germany  
phone +49 (0)211 1591 157 • fax +49 (0)211 1591 300

You can also use the online registration

[www.dvs-ev.de/aluminium-brazing](http://www.dvs-ev.de/aluminium-brazing)

**(only possible until 15 May 2012)**

Contact person:

Ms Christiane Czech [christiane.czech@dvs-hg.de](mailto:christiane.czech@dvs-hg.de)

## Registration fee for the congress (free of VAT)

DVS-Members EUR 600

Non-Members EUR 850

The fee includes congress documentation and any meals, refreshments and receptions indicated in the programme.

## Cancellation

Cancellation received in writing before 20 April 2012 will be subject to an administration charge of EUR 100.

No refund will be issued after 20 April 2012.

Of course a substitute can be nominated (please contact the registration desk onsite).

## Payment

Registrants will be sent a confirmation, together with an invoice for the registration fee, upon receipt of the completed registration form by DVS.

**Note:** The number of participants is limited. Registrations will be dealt with in the order in which they are received.

## Accommodation

Accommodation is available at the congress hotel, Radisson Blu Scandinavia Hotel. Reservations, cancellations and possible changes should be made directly with the respective hotel before 5 April 2012, mentioning "Aluminium Brazing" when booking. Please use the hotel reservation form.

## Hotel

Radisson Blu Scandinavian Hotel, Düsseldorf

The central location of this first-class hotel is apparent from its close proximity to the central station (3 km) and airport (5 km), as well as to the city centre (3 km).

The hotel also offers spacious and comfortable rooms.

Price for single room: EUR 115

Price for double room: EUR 130

(incl. breakfast buffet, pool and fitness room with sauna; free use of WLAN)

**Note:** We reserve the right to make changes without prior notice.



## Route Description

Radisson Blu Scandinavia Hotel  
Karl-Arnold-Platz 5  
40474 Düsseldorf/Germany  
phone +49 (0) 211 45 53 - 35 00

