



4th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R

10/11 June, 2015
Düsseldorf/Germany

4th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R

With regard to climate change it is becoming increasingly important to reduce emissions through energy efficiency. Stringent environmental requirements are the greatest challenges facing the heating, ventilation, air conditioning and refrigeration industry.

Organised for the second time by DVS – German Welding Society – the 4th International Congress on “Aluminium Heat Exchanger Technologies for HVAC&R” on 10/11 June, 2015 in Düsseldorf, is dedicated to these aspects.

The event addresses the producers and the users in the field of air conditioning and refrigeration. 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 technologies by means of presentations, comments and technical discussion. For **the first time** the conference will include a **panel discussion** concerning actual activities in the field of design and corrosion.

The congress will provide numerous opportunities to establish or strengthen business relationships and network with industry professionals.

An exhibition of participating companies running in parallel with the congress will help to expand further networking opportunities.

The congress language is English.

09:00 – 11:00 **Registration**

11:00 – 11:15 **Welcome / Introduction**

Dr. R. Boecking, General Manager
(DVS – German Welding Society)

Dr. H.-W. Swidersky, Technical Chair HVAC&R
(Solvay Fluor GmbH)

Opening Presentation

Chair: R. Mittelstädt (GSI – Gesellschaft für Schweißtechnik International mbH)

11:30 – 12:00 **State of the Art in R&D of Aluminium Mini- and Micro-Channel Heat Exchangers – update**

M. Kauffeld* (University of Applied Sciences Karlsruhe)

Session A

Wednesday 10 June, 2015

Current Market / Future Overview

Chair: R. Mittelstädt (GSI – Gesellschaft für Schweißtechnik International mbH)

12:00 – 12:30 **EU 517/2014 F-Gas regulation – status and first experiences**

F. Flohr* (Solvay Fluor GmbH)

12:30 – 13:00 **High performance MCHE condenser design for commercial air conditioners**

M. Yanik* (Danfoss), S. Padhmanabhan, Y. Jing

13:00 – 14:00 **Lunch**

Session B

Wednesday 10 June, 2015

Applications

Chair: A. Gray (Innoval Technology Limited)

14:00 – 14:30 **New tube concept: microchannel profile for evaporators and for refrigeration condensers**

B. Vestergaard*,
O. Ploug (Sapa Precision Tubing Technology Centre)

14:30 – 15:00 **Joining tube to tube sheet for coil wound heat exchangers by hybrid friction diffusion**

A. Roos* (Helmholtz-Zentrum Geesthacht),
J. dos Santos, D. Alba, S. Hanke, G. Wimmer

15:00 – 15:30 **Coffee Break**

15:30 – 16:30

**Panel Discussion: Residential Air Conditioning,
Heating & Refrigeration Industry
Current Challenges and Future Development**

Panel Discussion

18:00

Social Evening Event

Enjoy a boat trip on the river Rhine to strengthen business relations in an enjoyable and informal atmosphere including a tasteful buffet and some impression of Düsseldorf.

18:30

Boarding at Rheinterrasse boats dock „Düsseldorf 1“

19:00

Departure

23:00

End of the Event

Participants should bring casual and waterproof clothes and are required to register (**see Registration Form**).



Session C

Thursday 11 June, 2015

Corrosion

Chair: H. Janssen (Hydro Aluminium Rolled Products GmbH)

09:30 – 10:00

Microchannel folded tube condensers with MULTI-CLAD material for extraordinary corrosion resistance

K. Wang* (Gränges Technology), C. Martin-Callizo, M. Melander

10:00 – 10:30

Aluminium Material Developments for Brazed HVAC&R Applications

A. Gray* (Innoval Technology Limited)

10:30 – 11:00

Coffee Break

11:00 – 11:30

Fundamental alloying, processing, and field application considerations for aluminum HVAC&R heat exchangers

D. Ellerbrock* (Sapa Precision Tubing Technology Center), O. Daaland, J. H. Nordlien, D. Steiner

Session D

Thursday 11 June, 2015

Equipment

Chair: H. Janssen (Hydro Aluminium Rolled Products GmbH)

11:30 – 12:00

Should maintenance materially alter purchasing decisions

M. McQuirk* (AFC-Holcroft)

12:00 – 13:00

Lunch

Session E

Thursday 11 June, 2015

HVAC&R and HX products

Chair: H.-W. Swidersky (Solvay Fluor GmbH)

13:00 – 13:30

GreenHP: heat exchangers for next generation heat pump

A. Strehlow* (AKG Verwaltungsgesellschaft mbH), C. Martin-Callizo, T. Oltersdorf, C. Reichl

13:30 – 14:00

Next generation header materials for corrosion resistant heat exchangers

S. Schlueter* (Hydro Aluminium Rolled Products GmbH), G. Bernig, H. Janssen, V. Sass

14:00

Closing Remarks

Exhibition Information

Concurrent with the 4th International Congress on Aluminium Heat Exchanger Technologies for HVAC&R an Exhibition will be held.

Since the exhibition space is unfortunately very limited we recommend you to book early (first come first served principle).

Exhibitors (Status: 20 April, 2015)

- Aleris Rolled Products Germany GmbH
- Consarc Engineering Ltd
- Gränges AB
- Hymmen Industrieranlagen GmbH
- E. Krieg GmbH
- Erbslöh Aluminium GmbH
- Lucas-Milhaupt Inc.
- PIETRO GALLIANI BRAZING S.p.A.
- SAPA Precision Tubing Tønder A.S.
- Schoeler GmbH
- SECO/WARWICK Europe Sp. z o.o.
- Solvay Fluor GmbH
- Thermasys Tubing



Presenting Authors* | Co-Authors | Chairs

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- E**
- D. Ellerbrock*** Sapa Precision Tubing Technology Center, Sapa Precision Tubing North America, Rockledge/USA
- F**
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Tacherting/Germany

Y

M. Yanik* Danfoss, Baltimore/USA

Terms and Conditions

Congress Location

Radisson Blu Scandinavia Hotel
Karl-Arnold-Platz 5, 40474 Düsseldorf/Germany

Registration

Send your completed registration form to:

DVS – German Welding Society
P.O. Box 10 19 65, 40010 Düsseldorf/Germany
P +49. (0)2 11. 1591-155 | F +49. (0)2 11. 1591-300

You can also use the online registration

www.dvs-ev.de/hvacr2015

(only possible until 28 May, 2015)

Contact person:

Ms Britta Wingartz

britta.wingartz@dvs-hg.de

Registration Fee for the Congress (free of VAT)

DVS-Members EUR 570

Non-Members EUR 670

The fee includes one congress proceeding, coffee breaks,
lunch and the social evening event.

Cancellation

All cancellations must be requested in writing to DVS. An ad-
ministration fee of EUR 100 will be applied to any cancellation
made on or before 30 April, 2015.

No refunds will be given for cancellation made after 30 April,
2015.

Of course a substitute can be nominated
(please contact Ms Britta Wingartz).

Information

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 (first come first served principle).

Accommodation

Accommodation is available at the congress hotel, Radisson Blu Scandinavia Hotel Düsseldorf. Reservations, cancellations and possible changes should be made directly with the hotel.

Please book online directly on

www.radissonblu.com/scandinaviahotel-duesseldorf/hotel-deals/alumin

Price for single room: EUR 145

Price for double room: EUR 160

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

Terms and conditions

- Rate is per night.
- This offer is bookable for 9 – 11 June 2015.
- The official deadline for reservations is 1 May 2015.
- This offer is bookable on request and is subject to availability.
- Free cancellation is possible until 48 hours prior to arrival. Late cancellation and no shows will be charged 90%.

Route Description

Radisson Blu Scandinavia Hotel
Karl-Arnold-Platz 5
40474 Düsseldorf/Germany
T +49. (0)211. 4553-3500





Britta Wingartz

Organisation

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