

5th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R

16/17 May, 2017
Düsseldorf/Germany



5th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R 2017

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 third time by DVS – German Welding Society – the 5th International Congress on “Aluminium Heat Exchanger Technologies for HVAC&R” on 16/17 May, 2017 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.

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.

Tuesday | 16 May, 2017

09:00 – 11:00 Registration and Exhibition

11:00 – 11:15 Welcome / Introduction

R. Boecking (DVS – German Welding Society)
H.-W. Swidersky (Solvay Fluor GmbH)

Opening Presentation

Chair: H.-W. Swidersky

11:15 – 12:15 Challenges for AI microchannel heat exchangers and their solutions

P. Hrnjak (University of Illinois at Urbana-Champaign)

12:15 – 12:30 Exhibition

12:30 – 13:30 Lunch

Session A

Tuesday | 16 May, 2017

Current Market / Future Overview

Chair: R. Mittelstädt

13:30 – 14:00 Can an aluminium evaporator (Web-MPE) be able to turn the HVAC&R heat exchanger market to brazing? Just as it happened in automotive?

B. Vestergaard (Sapa Precision Tubing Tønder a.s)

14:00 – 14:30 Process force reduction during friction stir welding of EN AW 6060 T66 with scaled tool diameters

M. Grätzel * (Technical University Ilmenau), M. Weigl* (Grenzbach Maschinenbau GmbH), A. Regensburg, R. Schürer, M. Hasieber, J.-P. Bergmann

14:30 – 15:00 Coffee Break and Exhibition

Session B

Tuesday | 16 May, 2017

Applications

Chair: R. Mittelstädt

15:00 – 15:30 **New application technology of graphite-muffle continuous atmosphere furnace (OXYNON® FURNACE) for aluminum brazing**

H. Eguchi* (Kanto Yakin Kogyo Co., Ltd.), K. Kanda,
N. Sakamoto, K. Watanabe, T. Ninomiya

15:30 – 16:00 **Insight on practical alloy selection for aluminium heat exchangers**

T. Rasmussen (Sapa Precision Tubing Tønder a.s)

17:00 – 22:00 **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 impressions of Düsseldorf.

17:30 **Boarding at Rheinterrasse boats dock “Düsseldorf 1”**

18:00 **Departure**

22:00 **End of the Event**

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



Session C

Wednesday | 17 May, 2017

09:30 – 10:00 **Exhibition**

Corrosion

Chair: B. Vestergaard

10:00 – 10:30 **Design of brazed heat exchangers: Principles for improved corrosion resistance**

E. Senel* (Sapa Precision Tubing Technology Center),
J. H. Nordlien, T. Rasmussen

10:30 – 11:00 **An update on the development of a new accelerated corrosion test for all-aluminum HVAC heat exchangers sponsored by ASHRAE**

D. Ellerbrock (Sapa Precision Tubing Technology Center)

Session D

Wednesday | 17 May, 2017

Research and Development

Chair: B. Vestergaard

11:00 – 11:30 **Diffusion bonded aluminium-based aero heat exchangers**

A. Shirzadi (The Open University & Cambridge Joining Technology)

11:30 – 12:00 **Exhibition**

12:00 – 13:00 **Lunch**

Session E

Wednesday | 17 May, 2017

HVAC&R and HX products

Chair: H.-W. Swidersky

13:00 – 13:30 **Protection of MCHE heat exchangers**

W. Scheffer (Aqua Aero Coatings B.V.)

13:30 – 14:00 **Joining dissimilar materials in heat exchanger manufacturing process**

H. Zhao* (Creative Thermal Solutions, Inc.), S. Elbel, P. Hrnjak

14:00 – 14:30 **Microchannel folded tubes for HVAC&R applications**

C. Martin Callizo* (Gränges AB), K. Wang

15:00 **Closing Remarks**

H.-W. Swidersky (Solvay Fluor GmbH)

Presenting Authors*, Co-Authors, Chairs

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Bergmann, J.-P.	Technical University Ilmenau, Ilmenau/ Germany
Boecking, R.	DVS – German Welding Society, Düsseldorf/Germany

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Ellerbrock, D.*	Sapa Precision Tubing Technology Center, Rockledge/United States of America

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H

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Hrnjak, P.*	University of Illinois at Urbana-Champaign and Creative Thermal Solutions Inc., Urbana/United States of America

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Kanda, K.	Kanto Yakin Kogyo Co., Ltd. (KYK), Hiratsuka/Japan
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M

Martin Callizo, C.*	Gränges AB, Stockholm/Sweden
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Wang, K.	Gränges Aluminium (Shanghai) Co. Ltd., Shanghai/P.R. China
Watanabe, K.	Kanto Yakin Kogyo Co., Ltd. (KYK), Hiratsuka/Japan
Weigl, M.*	Grenzebach Maschinenbau GmbH, Hamlar/Germany

Z

Zhao, H.*	Creative Thermal Solutions Inc., Urbana/ United States of America
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Exhibitors (Status: January 23, 2017)

- E. Krieg GmbH
- Grenzebach Maschinenbau GmbH
- Kanto Yakin Kogyo Co., Ltd. (KYK)
- Lucas Milhaupt, Inc.
- PIETRO GALLIANI BRAZING SPA
- Sapa Precision Tubing
- Schoeler GmbH
- SECO/WARWICK S.A.
- Solvay Fluor GmbH
- Sono-Tek Corporation
- Thermasys Tubing / ARUP GmbH



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. 15 91-155 | F +49. (0)2 11. 15 91-300

You can also use the online registration

www.dvs-ev.de/hvacr2017

(only possible until 12 May, 2017)

Contact person:

Ms Britta Wingartz

britta.wingartz@dvs-hg.de

Registration Fee for the Congress (free of VAT)

DVS-Members EUR 600

Non-Members EUR 700

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 administration fee of EUR 100 will be applied to any cancellation made on or before 25 April, 2017.

No refunds will be given for cancellation made after 25 April, 2017.

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.

Exhibition

Concurrent with the 5th International Congress and Exhibition on Aluminium Heat Exchanger Technologies for HVAC&R an Exhibition will be held.

Exhibition space with counter display unit EUR 800 plus 19% VAT / area only unit EUR 550 plus 19% VAT including only one exhibitor personnel per exhibiting company (free of charge).

Since the exhibition space is unfortunately very limited we recommend you to book early. The booking will be handled on a first come, first served basis.

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 the website of the hotel.

Price for single room: EUR 150

Price for double room: EUR 170

(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 15 – 17 May, 2017.
- The official deadline for reservations is 5 April, 2017.
- 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%.

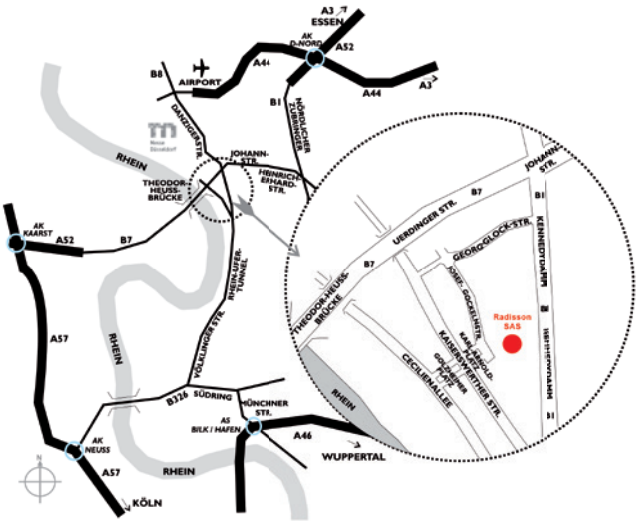
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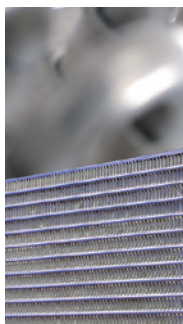
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Simone Mahlstedt | Brigitte Brommer

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