

# **3<sup>rd</sup> International Congress on Aluminium Heat Exchanger Technologies for HVAC&R**

15/16 May, 2013  
Düsseldorf/Germany



## 3<sup>rd</sup> International Congress on Aluminium Heat Exchanger Technologies for HVAC&R

Not only with regard to the climate change it is becoming more important to use energy efficiently and reduce emissions. Stringent environmental requirements are the greatest challenges the heating, ventilation, air conditioning and refrigeration industry faces.

The 3<sup>rd</sup> International Congress on “**Aluminium Heat Exchanger Technologies for HVAC&R**” on May 15/16 May, 2013 in Düsseldorf, is dedicated to these aspects and will be organised for the first time by DVS – German Welding Society.

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 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.

# Wednesday 15 May, 2013

09.00 – 11.15 **Registration**

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11.15 – 11.30 **Welcome / Introduction**

## Session A

### Opening Presentations

Chairman: Holger König, Ref-tech, engineering office, Kressbronn / Germany

11.30 – 12.00 **State of the Art in R&D of Aluminium Mini- and Micro-Channel Heat Exchangers**

Prof. Dr. Michael Kauffeld  
University of Applied Sciences Karlsruhe  
Faculty of Mechanical Engineering and Mechatronics  
Karlsruhe / Germany

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12.00 – 12.30 **F-Gas Regulation – Current Status**

Felix Flohr  
Solvay Fluor GmbH  
Hanover / Germany

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12.30 – 13.30 **Lunch Break**

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## Session B

### Applications

Chairman: Dr. Hans-W. Swidersky, Solvay Fluor GmbH, Hanover / Germany

13.30 – 14.00 **Emerging Trends in HVAC&R and Manufacturing Challenges**

Girish Parundekar  
Blue Star Ltd.  
Mumbai / India

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14.00 – 14.30 **Developments in Aluminium Brazing**

Adrian Goodbrand  
Consarc Engineering Ltd.  
Holytown / United Kingdom

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14.30 – 15.00 **Market Requirements on Aluminium**

Holger König  
Ref-tech, engineering office  
Kressbronn / Germany

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15.00 – 15.30 **Coffee Break**

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## Session C

### Testing, Design & Equipment

Chairman: Dr. Rainer Mittelstädt, GSI - Gesellschaft für Schweißtechnik International mbH, Niederlassung SLV Hannover, Hanover / Germany

15.30 – 16.00 **How to Avoid Leaks in Brazed All-Aluminium Micro-Channel Coils**

Agustin Maiz  
CLIMETAL, S.A.  
Madrid / Spain

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16.00 – 16.30 **Aluminium Round Tube Extrusion for HVAC&R Application**

Vikas Somani  
Brazeway Inc.  
Adrian, MI / United States of America

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16.30 – 17.00 **CAB Furnace Designs to Obtain a Variety of Brazing Profiles Required for HVAC&R Heat Exchangers**

Maciej Stempniewicz  
SECO/WARWICK EUROPE S.A.  
Swiebodzin / Poland

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At 18.00 –  
(22.30) **Social Evening Event**

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# Thursday 16 May, 2013

## Session D

### Corrosion

Chairman: Holger König, Ref-tech, engineering office, Kressbronn / Germany

**09.00 – 09.30 Performance Comparison between Tube & Fin versus Micro-Channel Coils in Different Environments**

Agustin Maiz  
CLIMETAL, S.A.  
Madrid / Spain

**09.30 – 10.00 Accelerated Corrosion Test Methods for HVAC&R Applications and Comparison with Field Test Data**

Marja Melander  
Sapa Technology  
Finspang / Sweden

**10.00 – 10.30 Coffee Break**

## Session E

### Standards

Chairman: Holger König, Ref-tech, engineering office, Kressbronn / Germany

**10.30 – 11.00 Aluminium in HVAC&R: Possibilities and Limitations Related to Certification and Applications; an Analysis of Existing HVAC&R Standards and Review for Al**

Thomas Enkemann  
Ref-tech, engineering office  
Kressbronn / Germany

## Session F

### HVAC&R and HX products

Chairman: Stefan Schlüter, Hydro Aluminium Rolled Products GmbH, Grevenbroich / Germany

**11.00 – 11.30 Frequently Asked Questions from Companies Starting with All-Aluminium Brazed Heat Exchangers in HVAC&R Industry**

Dr. Leszek Orman  
Solvay Fluor GmbH  
Hanover / Germany

**11.30 – 12.00 Increasing Cost Effectiveness of High Efficiency Commercial Air Condition with MCHE Evaporators**

Mustafa K. Yanik  
Danfoss AC/R  
Baltimore, MD / United States of America

**12.00 – 12.30 Automatic Brazing of Aircondition Aluminium Pipes with up to 10 Joints - So Called IWT-Pipe Systems**

Wolfgang Baumann  
Vermotec Verbindungs- und Montagetechnik GmbH  
St. Ingbert / Germany

**12.30 – 13.30 Lunch Break**

**13.30 – 14.00 Aluminium Concepts for Brazed HVAC&R Heat Exchangers**

Dr. Volker Saß  
Hydro Aluminium Rolled Products GmbH  
R&D Bonn / Germany

**14.00 – 14.30 Next Generation Multilayer Material for Heat Exchanger Applications**

Scott Haller  
Sapa Heat Transfer AB  
Finspang / Sweden

**14.30 – 15.00 Effects of Cu Addition on Corrosion Characteristics and Microstructure of Al-Mn-Alloy**

Jong-Seo Yoon  
LS Cable & System Ltd.  
Gyeonggi-do / Republic of Korea

# Terms and Conditions

**15.00 – 15.30 Evolution of the Microstructure of a 3003 and a 4004 Alloys in Plate-and-Fin Heat Exchangers Brazed under Vacuum**

Cecile Bernardi  
Fives Cryogenie and LEM3 (Université de Lorraine)  
Metz / France

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**15.30 – 16.00 Closing Remarks – Coffee Break**

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## Congress Location

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

## Registration and further Information

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

DVS – Germand Welding Society  
P. O. Box 10 19 65, 40010 Düsseldorf/Germany  
T +49. (0)2 11. 15 91-157 | F +49. (0)2 11. 15 91-300

You can also use the online registration  
[www.dvs-ev.de/hvacr2013](http://www.dvs-ev.de/hvacr2013)  
(only possible until 8 May, 2013)

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 550  
Non-Members EUR 650

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

## Cancellation

Cancellation received in writing before 8 April, 2013 will be subject to an administration charge of EUR 100. No refund will be issued after 8 April, 2013.

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

# 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. 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 Düsseldorf. Reservations, cancellations and possible changes should be made directly with the hotel before 1 April, 2013, mentioning "HVAC&R" 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 offers spacious and comfortable rooms.

Price for single room: EUR 125

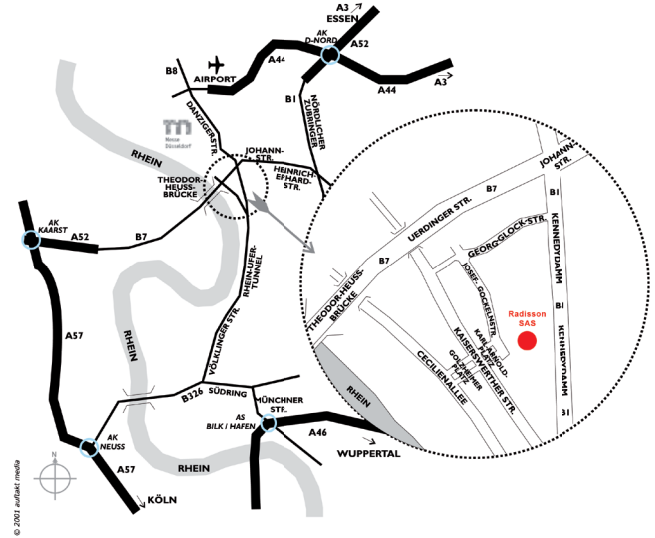
Price for double room: EUR 140

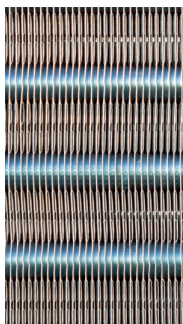
(incl. breakfast buffet, pool and fitness room with sauna; free use of WLAN)

Programme is subject to change without prior notice.

## Route Description

Radisson Blu Scandinavia Hotel  
Karl-Arnold-Platz 5  
40474 Düsseldorf/Germany  
T +49. (0)2 11. 45 53-35 00





**DVS – German Welding Society**

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40223 Düsseldorf

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