



9th International Congress and Exhibition on Aluminium Brazing 2016

19 – 21 April, 2016
Düsseldorf/Germany



Aluminium Brazing 2016

The International Aluminium Brazing Congress, organised by the DVS – German Welding Society, will take place from 19 – 21 April, 2016 in Düsseldorf/Germany in 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 technology by means of presentations, comments and technical discussions. 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 concurrent to the congress will help getting further contacts.

The organisers are sure to have an interesting offer of lectures held by well recognised speakers and heartily invite you to take part in this significant event.

Tuesday 19 April, 2016

08:30 **Registration**

10:30 **Welcome / Introduction**
R. Boecking, H.-W. Swidersky

Session A

Opening Presentations

Chair: H.-W. Swidersky

10:40 **Aluminium brazing – A special case of brazing?**
M. Türpe

11:25 **High frequency fatigue testing – Experimental methods and damage mechanisms in aluminum alloys and joints**
M. Zimmermann

12:10 **Lunch**

Session B, Part I

Materials

Chair: M. Türpe

13:30 **Role of the silicon on material structure and corrosion resistance of extruded tubes used for brazed aluminum heat exchangers**
P. Da Silva*, L. Aubanel, C. Casenave, M. Philippe, T. Colas, V. Renault, A.-G. Noumet-Villemane

14:00 **Effect of brazing conditions on the corrosion properties of ZnSilflux coated microchannel tubes**
E. Senel*, J. H. Nordlien, T. Guillaume

14:30 **Exhibition and coffee break**

Session B, Part II

Materials

Chair: H. Janssen

15:00 Improving the consistency of corrosion testing and interpretation of corrosion results

J. H. Nordlien*, D. Ellerbrock, E. Senel, A. Espedal

15:30 Fatigue damage mechanisms of thin brazed aluminium alloys used in car heat exchangers

J. Paturaud*, J.-Y. Buffiere, D. Fabregue,
A.-G. Noumet-Villemiane, M. Perrier, A. Danielou

16:00 Development of low melting clad for heat exchanger production

A. Schlegel*, B. Jacoby, S. Kirkham, A. Bürger

16:00 – Exhibition
17:00



Wednesday 20 April, 2016

Session B Part III

09:30 **Exhibition**

Materials

Chair: R. Mittelstädt

10:00 Zn – angel or devil, part II: May the Zn be with you ...
L. Löchte*, N.-W. Sucke, I. Boyraz, M. Götz, K. Horn, R. Breindl

10:30 New multi-layer materials
M. Mrotzek*, H. Janssen, V. Sass, S. Schlüter

11:00 Exhibition and coffee break

Session C

Equipment

Chair: R. Mittelstädt

11:30 Upgrading outdated CAB equipment to meet today's process requirements and standards: An alternative to new investments
M. Stempniewicz*, P. Skarbinski

12:00 Brand new state of the art CAAB brazing line delivering 35% overall energy saving
M. McQuirk

12:30 Exhibition and Lunch

Session D, Part I

Research and Development

Chair: H.-W. Swidersky

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|--------------|--|
| 14:00 | Influence of preceding production steps on brazeability of aluminium
E. Hofmann*, U. Füssel, J. Zschetzsche |
| 14:30 | Innovative joining technologies for mixed joints of stainless steel and aluminum or aluminum based composites
S. Weis*, M. Elßner, V. Fedorov, G. Wagner |
| 15:00 | Exhibition and coffee break |

Session D, Part II

Research and Development

Chair: H.-W. Swidersky

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|----------------------|---|
| 15:30 | Numerical simulation of the distortion in conventional laser and fluxless laser-plasma brazing of aluminum using Simufact.welding
P. Khazan*, T. Radel, P. Woizeschke |
| 16:00 | State of the art for additive manufacturing of aluminum alloys
S. Jahn*, R. Kahlenberg, S. Matthes |
| 16:00 – 17:00 | Exhibition |
| 18:00 | Social Evening Event:
Boat trip on the river Rhine |

Thursday 21 April, 2016

Session D, Part III

09:30 **Exhibition**

Research and Development

Chair: S. Jahn

10:00 **Soldering of aluminium alloys**

M. H. Biglari*, R. Denteneer, L. C. P. Krassenburg, J. H. G. Brom,
M. I. Menninga, N. J. A. van Veen, A. A. Kodentsov

10:30 **Diffusion bonding of aluminum alloys – A review**

F. Gemse*, S. Jahn, S. Dahms, J. Pfeifer

11:00 **Exhibition and coffee break**

Session E

Testing and Design

Chair: S. Jahn

11:30 **Development of an electrochemical depth profiling method to optimize the corrosion protection on aluminium clad sheets for automotive heat exchangers**

L. Peguet*, V. Lair, E. Mendez, H. Noui

12:00 **Fatigue behavior of brazed aluminum / stainless steel mixed joints**

V. Fedorov*, S. Weis, G. Wagner

12:30 **Final remarks**

H.-W. Swidersky

12:40 **Lunch**

The programme is subject to change without prior notice.

*The names of the presenting authors are followed by an asterisk.

Presenting Authors*, Co-Authors, Chairs

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Aubanel, L. VALEO, La Suze sur Sarthe/France

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Koblenz/Germany

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Krassenburg, L. C. P.	Mat-Tech BV, Son/The Netherlands

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Schlüter, S. Hydro Aluminium Rolled Products GmbH,
Grevenbroich/Germany

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Swidersky, H.-W. Solvay Fluor GmbH, Hanover/Germany

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Türpe, M.*	MAHLE Behr GmbH & Co. KG, Stuttgart/ Germany
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V

van Veen, N. J. A.	Mat-Tech BV, Son/The Netherlands
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W

Wagner, G.	TU Chemnitz, Chemnitz/Germany
Weis, S.*	TU Chemnitz, Chemnitz/Germany
Woizeschke, P.	BIAS GmbH, Bremen/Germany

Z

Zimmermann, M.*	TU Dresden, Dresden/Germany
Zschetzsche, J.	TU Dresden, Dresden/Germany

Exhibitors (Status: 29 March, 2016)

- AFC Holcroft
- Aleris Rolled Products Germany GmbH
- ATISER ApS
- E. Krieg GmbH
- Erbslöh Aluminium GmbH
- GRÄNGES AB
- Honeywell Speciality Chemicals Seelze GmbH
- Hydro Aluminium Rolled Products GmbH
- JC Corp.
- Lucas-Milhaupt Inc.
- PIETRO GALLIANI BRAZING S.p.A.
- Sapa Precision Tubing
- Schoeler GmbH
- SECO/WARWICK Europe Sp. z o.o.
- Solvay Fluor GmbH
- SONO - TEK CORPORATION
- SUN KWANG BRAZING FILLER METAL CO.,LTD
- TAV VACUUM FURNACES SPA
- Thermasys Tubing

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/aluminium-brazing
(only possible until 15 April, 2016)

Contact person:
Ms Britta Wingartz
britta.wingartz@dvs-hg.de

Registration Fee for the Congress (free of VAT)

DVS-Members	EUR 740
Non-Members	EUR 875

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 31 March, 2016.
No refunds will be given for cancellation made after 31 March, 2016.

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 9th International Congress Aluminium Brazing an Exhibition will be held.

Exhibition space with counter display unit EUR 800 plus 19% VAT / without counter display unit EUR 550 plus 19% VAT (including stand personnel, one exhibitor per exhibiting company is allowed).

Since the exhibition space is unfortunately very limited we recommend you to book early (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 the website of the hotel.

Bookable from 1 December, 2015

Price for single room: EUR 150

Price for double room: EUR 165

(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 18 – 21 April 2016.
- The official deadline for reservations is 7 March 2016.
- 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%.

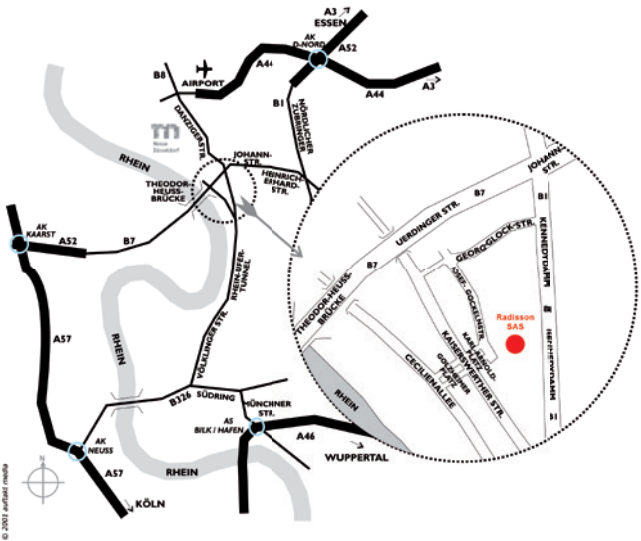
Route Description

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Karl-Arnold-Platz 5

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Britta Wingartz

Organisation

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