

**The 6th International Seminar on
Advances in Resistance Welding
22-24 September 2010, Hamburg, Germany**

ANNOUNCEMENT

Organisers:

[SWANTEC Software and Engineering ApS](#), Denmark
[Harms & Wende GmbH & Co KG](#), Germany

Background:

New inventions and innovative developments in recent years have enabled new possibilities for joining challenging materials such as advanced high strength steels, aluminium alloys and magnesium alloys. These advances have drawn greater attention from manufacturers towards new applications of resistance welding techniques. With extensive research and development by material suppliers, welding equipment manufacturers and industrial end users, it is obvious to see that resistance welding remains one of the most efficient and competitive joining technologies in automotive, aerospace, electrical, electronics, white goods and other metal processing industries.

There have been great demands from industry to follow through with the recent advances and to update users with the technology available in the field of resistance welding. In order to meet the demands of industry, a series of international seminars on Advances in Resistance Welding have been initiated by SWANTEC since 2000 and now organised as a biennial activity of the Innovative Resistance Welding Network – [INNOWELD.NET](#). The first seminar was held in October 2000 in Copenhagen, Denmark; the second was held in November 2002 in Aachen, Germany; the third was held in November 2004 in Berlin, Germany; the fourth seminar was held in 2006 in Wels, Austria; while the fifth was held in September 2008 in Toronto, Canada. All lectures at the seminars were given by well-known experts specially invited from leading institutes and companies in the field of resistance welding with a full coverage of all important topics on materials, welding equipment, innovations and the latest industrial applications. The seminars have been well attended, with over 80 participants in 2008, with more than 80% of them coming from industry.

The 6th seminar will be organized by SWANTEC and Harms-Wende on September 22nd -24th 2010 in Hamburg, Germany. Approximately 20 lectures will be given by invited experts in the field of resistance welding from leading institutes and companies to cover the latest inventions and developments in resistance welding with special emphasis on adaptive welding controls and applications for challenging materials which are difficult to weld *e.g.* aluminium alloys and advanced high strength steels, etc.

Objectives:

- To bring up the latest innovations and developments on industrial applications of resistance welding.
- To provide an opportunity for industrialists and specialists in resistance welding to share their expertise and experiences at an international level.

Topics:

- Challenges to resistance welding for applications of new materials and complex joints.
- Innovations and advances in resistance welding machines/guns and control technologies.
- Applications and optimisations of resistance welding with the support of computer technology.

Proceedings:

Proceedings of all lectures will be written in English and distributed to participants at the seminar. Presentations will be presented in English.

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PRELIMINARY PROGRAMME

Wednesday, September 22nd, 2010:

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|---------------|---|
| 09:00 – 12:00 | Registration |
| 09:30 – 12:00 | The XPRESS welding expert system (www.xpress-project.eu)
Presentations and interactive exploration of expert knowledge in resistance welding |
| 12:00 – 13:00 | Lunch, provided |
| 13:00 – 15:30 | Workshops on SORPAS® and User Group Meeting
Presentations and discussions from developers and users of the simulation software |
| 16:00 – 17:00 | Demonstration at Harms-Wende: Adaptive Control Systems
Presentations of latest development on adaptive control techniques |
| 18:00 – 20:00 | Reception and buffet |

Thursday, September 23rd, 2010:

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| 09:00 – 09:15 | Welcome |
| 09:15 – 10:00 | Keynote speech by Prof. Martin Greitmann , Hochschule Esslingen, Germany
The Wonderful World of Resistance Welding |
| 10:00 – 12:00 | Session 1: Resistance welding of challenging materials
Latest developments on welding Aluminium alloys and AHSS |
| 12:00 – 13:00 | Lunch, provided |
| 13:00 – 14:30 | Session 2: Adaptive welding control and production configuration techniques
Adaptive welding control technologies and results of XPRESS project |
| 15:00 – 16:30 | Session 3: Developments in welding machines and testing techniques
Servo guns and testing techniques |
| 17:00 – 19:00 | Guided Bus Tour of Hamburg City |
| 19:00 – 20:00 | Guided Tour at the Automobile Museum |
| 20:00 – 23:00 | Dinner, provided (address of the restaurant will be available at the seminar) |

Friday, September 24th, 2010:

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| 09:00 – 10:30 | Session 4: Process optimizations and applications in automotive
Practical applications and welding parameter optimizations for sheet metal welding |
| 11:00 – 12:00 | Session 5: Special processes and micro welding applications
Improving quality for special processes and micro welding applications |
| 12:00 – 13.30 | Closing remarks and lunch, provided |

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PRACTICAL INFORMATION

Venue for Reception, Workshop, Seminar and User Group Meeting, Sept. 22nd - 24th:



Hotel Waldhaus Reinbek
(<http://www.waldhaus.de>)

Hotel Waldhaus Reinbek
Loddenallee
21465 Reinbek
Phone: +49 40 727 520
e-mail: waldhaus@waldhaus.de

Directions:

By car from Hamburg Airport (about 25km):
Take Ring 2 via Horn, towards Billstedt. In Billstedt you exit on the B5 – towards Bergedorf. After about 4 km turn left at the second crossroad on Reinbeker Redder and then drive straight on until you arrive at Reinbek. After about 1 km you will see the sign-board WALDHAUS REINBEK on the right side and turn into the Loddenallee.



Arrival by train: Take the commuter railway system S 21 (direction Aumühle) at the central station Hamburg. Leave the train in Reinbek. Thence its 15 minutes walking distance or 3 minutes taxi distance to the Loddenallee.

Hotel Room Reservation:

A number of rooms have been pre-reserved at Hotel Waldhaus Reinbek with special rate at EUR 95 per night for the nights of September 22nd and 23rd (*the rate for the night of September 21st is EUR 109 plus EUR 15 breakfast*). Please book directly at the hotel by mentioning the code “**Harms&Wende**”. The special rates are only available until **July 31st, 2010**.

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REGISTRATION

Participant:

Name: _____ Ms. Mr. Dr. Prof.
Organization: _____
Address: _____
Postal or Zip: _____ City: _____
Country: _____
Phone: _____
Fax: _____
E-mail: _____

Participation:

Seminar

**Registration before
July 31st, 2010**

**Registration after
July 31st, 2010**

€395

€425

All prices are exclusive of any applicable taxes and/or fees.

Payment:

Bank transfer to **SWANTEC Software and Engineering ApS:**
Danske Bank, DTU-Branch, 2800 Lyngby, Denmark.
SWIFT: DABA DK KK. IBAN: DK3630004263877810
Notice: Your name in the transfer is necessary for identification.

Check/cheque enclosed.
Please make check payable to **SWANTEC Software and Engineering ApS.**

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