

**2<sup>nd</sup> International Seminar on:**  
**Advances in Resistance Welding**  
**6-7 November 2002, Aachen, Germany**

**ANNOUNCEMENT**

**Organisers:**

SWANTEC Software and Engineering ApS, Denmark  
ISF - Welding Institute, Aachen University, Germany

**Background:**

Resistance welding is a very productive and competitive joining technology and widely applied in automotive, aerospace, electrical, electronics, radiators, and other metal processing industries. Owing to the increasing applications of new materials as well as the recent developments of welding machines, process control and new development methods, there is a great demand from industry to obtain up-to-date information of the technology and to advance the applications of resistance welding. In order to meet the requirements of industry, a series of international seminars on Advances in Resistance Welding has been initiated by SWANTEC. The first seminar was co-organised by SWANTEC and JOM Institute on 18-20 October 2000 in Copenhagen, Denmark. With a good coverage of industrial applications, the seminar was very well responded with nearly 90% participants from industry.

Following the success of the first seminar, especially continuing the comprehensive coverage of the resistance welding technology for industrial applications, the second seminar is now organised by SWANTEC and ISF-RWTH in Aachen, Germany. Eight invited lectures given by well-known experts from leading professional institutions and companies in Germany, UK, Switzerland, Belgium and Denmark, will present a general coverage of the recent developments and new applications of resistance welding.

**Objectives:**

The objectives of the seminar are:

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

**Topics:**

The seminar topics will include all aspects of resistance welding covering materials, machines, process control and computer technologies in:

- Applications of resistance welding for innovative products and new materials.
- Advances in resistance welding machines and monitoring technologies.
- Modernisation of industrial applications of resistance welding with computer technology.

**Proceedings:**

Proceedings of all presentations will be distributed to participants at the seminar.

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**PROGRAMME**

**Seminar on 7 November 2002:**

- 09:00 – 09:15 **Introduction** by *Prof. U. Dilthey (ISF) and Dr. W. Zhang (SWANTEC)*
- 09:15 – 10:00 **A General Review of Recent Developments in Resistance Welding**  
*Mr. Steve Westgate, TWI Ltd., The Welding Institute, Cambridge, UK*
- 10:00 – 10:30 **Simulation of Innovative Resistance Welding Processes**  
*Prof. Dr.-Ing. K. Koppe, FH-Anhalt, Germany*  
*Dr.-Ing. S. Jüttner, Matthias Graul, Heiko Rudolf, Volkswagen AG, Germany*
- 10:30 – 10:45 Coffee Break
- 10:45 – 11:30 **Testing and Modelling of Mechanical Behaviours of Welding Machines**  
*Mr. Patrick Van Rymenant, De Nayer Institute, Belgium*
- 11:30 – 12:00 **Neural Networks for Quality Assurance of Resistance Spot Welding**  
*Prof. Dr.-Ing. U. Dilthey, Dipl.-Ing. M. Ahrend, ISF, RWTH-Aachen, Germany*
- 12:00 – 13:00 Lunch
- 13:00 – 14:00 **Adaptive Process Control for Resistance Welding in Automotive Industry**  
*Dr.-Ing, Karl Poell, Matuschek Messtechnik GmbH, Germany*
- 14:00 – 14:30 **Latest Developments in Reliable High Productive Spot, Multi-Spot and Projection Welding**  
*Mr. Markus Hutzli, H. A. Schlatter AG, Switzerland*
- 14:30 – 14:45 Coffee Break
- 14:45 – 15:15 **SPOTSIM – Simulation of Resistance Spot Welding**  
*Prof. Dr.-Ing. U. Dilthey, Dipl.-Ing. V. Pavlik, ISF, RWTH-Aachen, Germany*
- 15:15 – 15:45 **SORPAS<sup>®</sup> – The Professional Software for Simulation of Resistance Welding**  
*Dr. Wenqi Zhang, SWANTEC, Denmark*
- 15:45 – 16:30 **Closure Discussions**

**Tuition Course on SORPAS<sup>®</sup> on 6 November 2002:**

- 13:00 – 14:45 Fundamentals of SORPAS<sup>®</sup>
- 14:45 – 15:00 Coffee Break
- 15:00 – 16:30 Applications of SORPAS<sup>®</sup>
- 16:30 – 17:00 Discussions

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## GENERAL INFORMATION

### Venue of Seminar on 7 November 2002:

K3 Lüttich Hall, Eurogress Aachen, Monheimsallee 48, D-52062 Aachen, Germany.  
<http://www.eurogress-aachen.de>

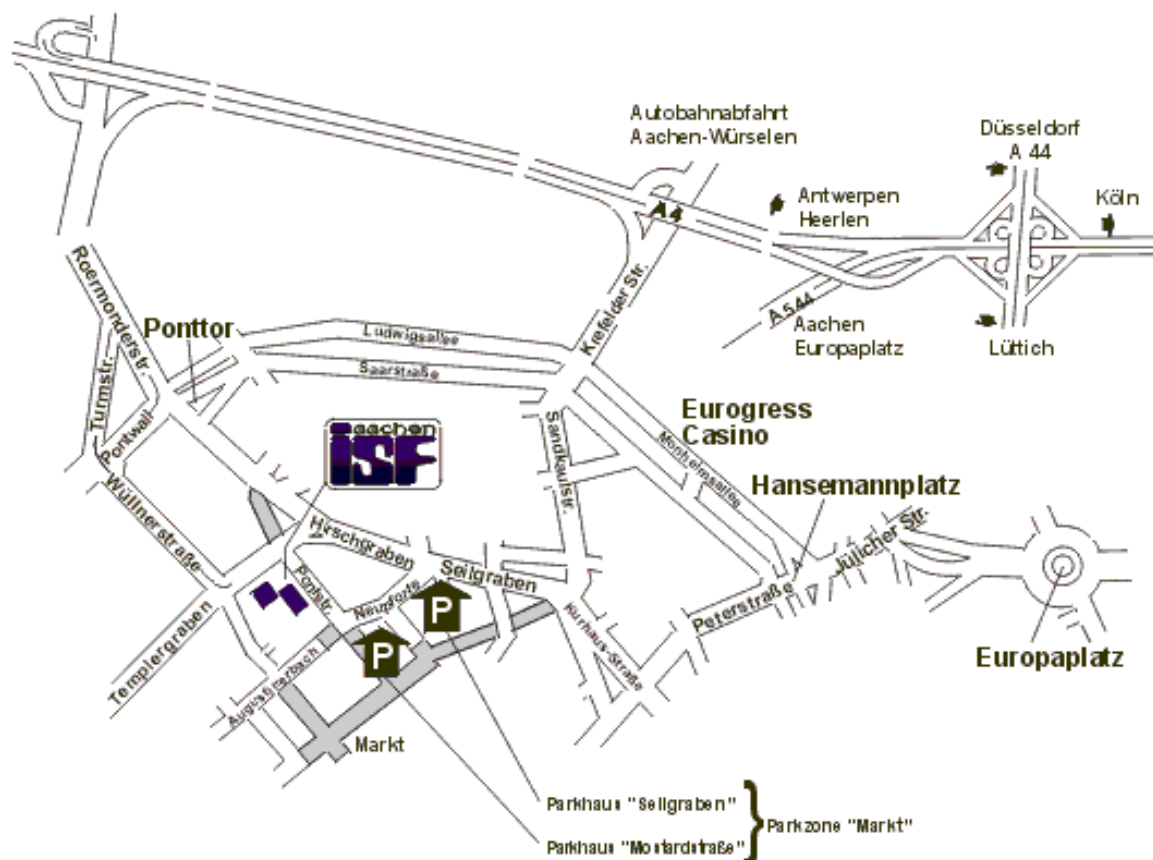
### Location of Tuition Course on SORPAS<sup>®</sup> on 6 November 2002:

“Lombard Saal”, ISF, RWTH-Aachen, Pontstrasse 49, D-52062 Aachen, Germany.  
<http://www.isf-aachen.de>

### Transportation and Accommodation:

Information of transportation and accommodation is given in the following websites:  
<http://www.isf-aachen.de/inst/anfahrt.html>  
<http://www.eurogress-aachen.de/anfahrt.html>

For further information, please contact **Dr.-Ing. Lars Stein** at ISF, RWTH-Aachen.  
Tel.: +49 - (0)241-80-96258



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**REGISTRATION FORM**

**Participant:**

Name: \_\_\_\_\_  Ms.  Mr.  Dr.  Prof.  
Organisation: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Post code: \_\_\_\_\_ City: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

**Participation:**

		<b>Registration before 11 October 2002</b>	<b>Registration after 11 October 2002</b>
Seminar:	<input type="checkbox"/> 7 November 2002	Euro 390,-	Euro 420,-
Tuition Course:	<input type="checkbox"/> 6 November 2002	Euro 50,- / free	Euro 70,-/free

*Notice: 1. The tuition course is free of charge for participants attending the seminar.  
2. All prices are exclusive of VAT.*

**Payment:**

- Send an invoice to me.
- Cheque made payable to SWANTEC Software and Engineering ApS.
- Bank transfer to Danske Bank, DTU-Branch, 2800 Lyngby, Denmark.  
Reg. No. 4263, Account No. 4263877810.  
*Notice: Your name in the transfer is important for identification.*

**Please return to:**

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