1st International Seminar on: Advances in Resistance Welding

18-20 October 2000, Copenhagen, Denmark

ANNOUNCEMENT

Organisers:

SWANTEC Software and Engineering ApS European Institute for the Joining of Materials (JOM)

Background:

Resistance welding, as a productive and competitive joining technology, has been widely applied in automotive, aerospace, electrical, electronic, mechanical and many other industrial sectors. The increasing requirements of safety, environment protection and economical effects have resulted in rapid development and application of new materials with high strength and good functionality (e.g. lightweight, environmental-friendliness, corrosion resistance and heat resistance etc). This, however, results in difficulties in welding of complex geometries (spot welding of multiple layers and projection welding of various shapes) and welding of materials difficult to join (such as high strength steel, stainless steel as well as silver, copper, aluminium and titanium alloys etc.) often involving dissimilar metal combinations. This has made resistance welding rather complex to apply and difficult to obtain optimised conditions in production. It certainly deserves more attention from both industry and institutions. Owing to the widespread applications of resistance welding as well as the recent developments of machines, tools and new methods, there is a great demand from industry to advance the applications of resistance welding and to obtain up-to-date information of the technology.

Objectives:

This seminar is the first professional meeting on resistance welding in the northern part of Europe with a focus on industrial applications. It is organised with presentations by well-known experts from Germany, United Kingdom, Belgium, The Netherlands and Denmark.

The objectives of the seminar are:

- To bring up the latest developments on industrial applications of resistance welding thereby to contribute to the modernisation of the technology in industries.
- 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 include spot welding, projection welding, seam welding and resistance brazing. Presentations will cover materials, electrodes, machines and computer technologies in:

- Applications of resistance welding for challenging products and complex material combinations.
- Advances in resistance welding machine, electrodes and monitoring equipment.
- 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 19 October 2000:

08:45- 09:00	Introduction by Dr. W. Zhang (SWANTEC) and Prof. R. L. Apps (JOM)	
09:00- 10:00	State-of-the-art in Industrial Applications of Resistance Welding Stefan Schreiber, SLV Duisburg GmbH, Duisburg, Germany	
10:00- 10:45	Resistance Welding of Complex Geometries and Metal Combinations Niels Bay, Technical University of Denmark, Lyngby, Denmark	
10:45– 11:00	Coffee Break	
11:00- 11:30	Preventive Maintenance on Multi-point Resistance Welding Machines Patrick Van Rymenant, De Nayer Institute, Sint Katelijne Waver, Belgium	
11:30– 12:00	Simultaneous Resistance Welding Birthe Laursen, Danfoss A/S, Nordborg, Denmark	
12:00- 13:00	Lunch	
13:00- 14:00	Process and Quality Control in Resistance Welding	
14:00– 14:30	Steve Westgate, TWI, The Welding Institute, Cambridge, UK Integrating Resistance Welding in Automatic and Semi-automatic Welding Machines Eisse Jan Drewes, AWL-Techniek B.V., Harderwijk, The Netherlands	
14.20 14.45		
14:30- 14:43	Coffee Break	
	Computer Simulation of Resistance Welding Processes	
	Computer Simulation of Resistance Welding Processes Wenqi Zhang, SWANTEC Software and Engineering ApS, Hoersholm, Denmark	

Tuition Course on $SORPAS^{\mathbolde{0}}$ (the software for simulation of resistance welding):

18 October 2000:

12:00 - 13:00 Lunch

13:00 - 17:00 Tuition Course

20 October 2000:

09:00 – 13:00 Tuition Course (repeat)

13:00 - 14:00 Lunch

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GENERAL INFORMATION

Venue of Seminar:

The seminar will be held on 19 October 2000 at:

Conference Room 1, Building 101A, Technical University of Denmark, 2800 Lyngby, Denmark.

Location of Tuition Course on SORPAS⁰:

The tuition course on SORPAS® will be held on 18 and 20 October 2000 at:

Room 019, Building 424, Technical University of Denmark, 2800 Lyngby, Denmark.

Accommodation:

Hotel rooms have been preliminarily reserved but please secure the reservation before 18 September at:

Scandic Hotel Eremitage

Klampenborgvej, Storcenter 62 2800 Lyngby

Tel.: (+45) 45 88 77 00 Fax: (+45) 45 88 17 82

Hotel Fortunen

Ved Fortunen 33 2800 Lyngby

Tel.: (+45) 45 87 00 73 Fax: (+45) 45 87 12 22 **DKK 825** for single or double room.

Including breakfast.

Be sure to mention the reference code "DTU1710" to receive this special rate.

DKK 525 for single room. **DKK 725** for double room.

Including breakfast.

Travel:

The seminar site, Technical University of Denmark (DTU), is located in the town of Lyngby, 10 km north of Copenhagen. You can get to the campus by taxi or public transportation.

Train from Copenhagen Airport: Transportation time: 40 min.

Price: DKK 33

Taxi from Copenhagen Airport Transportation time: 30-45 min

Price: DKK 350-400

Train from Central Copenhagen: Transportation time: 20 min.

Price: DKK 27.50

Taxi from Central Copenhagen Transportation time: 20 min

Price: DKK 150-200

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REGISTRATION FORM

Please return the completed form with payment before 29 September 2000.

Participant:		
Name:		
Address:		
Post code:	City:	
Phone:		
Fax:		
E-mail:		
Participation:		
Seminar:	19 October	Euro 350,-
Tuition Course:	☐ 18 October ☐ 20 October (repeat)	Euro 70,- / free Euro 70,- / free
	uition course is free of charge f ices are exclusive VAT.	for participants attending the seminar
Payment:		
Cheque made	e payable to SWANTEC Softwa	re and Engineering ApS.
Reg. No. 426	to Danske Bank, DTU-Branch, 3, Account No. 4263877810. name in the transfer is import	
Please return to:		
Dr. Lars Kristensen SWANTEC Software an Agern Alle 3	d Engineering ApS	

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