Press release

Latest developments within resistance welding and mechanical joining

In order to keep current with technologies available in the field of resistance welding and mechanical joining, a biennial series of international seminars and conferences have been conducted by SWANTEC since 2000 in collaboration with various co-organizing partners, and held alternatively in Europe, North America, and Asia.

In 2018 the 10th international seminar and conference is organized by SWANTEC and Hochschule Esslingen - University of Applied Sciences on 12-14th September, 2018 in Esslingen, Germany.

The objective of the conference is:

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

Most efficient joining methods
Resistance welding remains one of the most efficient and competitive joining technologies in automotive, aerospace, electrical, and other industries. While mechanical joining (SPR and clinching) are also finding increasing applications especially for joining dissimilar materials.

What can you expect?
Experts from all over the world are invited to come forward with a presentation on the following topics:

- State of the art in welding and joining, and a look into Industry 4.0
- Advances in self-pierce riveting (SPR) and clinching
- Advanced high strength steels, aluminium alloys, dissimilar materials, and coating
- Copper alloys and electronic materials, complex joints
- Computer simulation, artificial intelligence, and other technologies
- Machines, tooling, methods for monitoring, and controls
- Electrode materials, tip dressing, and tooling techniques
- New joining processes, hybrid joining processes, joining with adhesives

Professor Dr. Martin J. Greitmann, Managing Director of Steinbeis-Transferzentrum Innovative Produktionstechnik (IP) and professor at Esslingen University of Applied Science, is the keynote speaker with the topic „State of the art in welding and joining, and a look into Industry 4.0".

All presentations are presented in English during the event and proceedings of all papers will be distributed to participants at the seminar.

The participants
The conference has been well attended by engineers and specialists working in resistance welding and mechanical joining with focus on design, production, new materials, new technologies, and improvements of welding and joining solutions.

The aim is to share and contribute with new knowledge and have open discussions on relevant topics.

Read more about the conference
You can read more about the conference program and register on SWANTEC's website www.swantec.com/2018-conference.

Copenhagen, 10th April, 2018

Contact persons for more information:

General Questions

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Interview on content of conference

SWANTEC Software and Engineering ApS
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Profile
Dr. Wenqi Zhang has a PhD in Mechanical Engineering from the Technical University of Denmark and established SWANTEC Software and Engineering ApS in 1999.

His research is in metal forming, solid state bonding, resistance welding, and mechanical joining with special focus on developing a software for the welding and joining industry that serves the everyday needs of engineers in the industry.

The company serves the major part of the OEM companies in automotive industry with the software package SORPAS® for simulation of resistance welding and mechanical joining. SORPAS® is developed continuously in close cooperation with universities and industrial customers.

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Profile
Prof. Dr. Martin J. Greitmann has been the managing director of Steinbeis-Transferzentrum Innovative Produktionstechnik (IP) since 2012 combined with his professorship at Esslingen University of Applied Sciences since 2008.
He is also a member of the DVS Bezirksverband Stuttgart.

He works primarily within:

- Innovative process development
- Quality assurance in production (process analyses, component testing and non-destructive testing (NDT)
- Lightweight construction
- Welding, soldering, adhesive bonding, mechanical joining techniques, laser materials processing, and heat treatment

Copenhagen, 10th April, 2018