

**The 11th International Seminar & Conference on
Advances in Resistance Welding and Mechanical Joining
18-20 September 2024, Shanghai, China**

ANNOUNCEMENT

Organizers:

[SWANTEC Software and Engineering ApS](#), Denmark
[Shanghai Infomass Information Technology Co., Ltd.](#), China

Background:

The rapid development and production of electric vehicles (EVs) are reshaping the automotive industry with a massive transformation to E-mobility. The transition to E-mobility has increased the welding and joining of battery cells, modules and packs, as well as electric motors and power electronics. The need for reducing CO2 emissions and improving vehicle performance has stimulated the production of lightweight designs by joining higher-strength steels, aluminum alloys, die-cast aluminum, and dissimilar materials.

These trends require new developments and production of more advanced materials with higher strength-to-weight ratios, and also have complicated the welding and joining processes requiring more intelligent welding process optimizations and sophisticated weld quality assurance.

To keep up to date with technology advancements in the field of resistance welding and mechanical joining, and to provide an opportunity for industrialists and welding specialists to share their expertise, experiences and outlooks at an international level, a series of biennial international seminars has been organized by SWANTEC since 2000 in collaborations with various co-organizing partners alternatively in Europe, North America and Asia. The 11th seminar will be held in 2024 in Shanghai, China.

Objectives:

- To provide a platform and an opportunity for industrialists and specialists in resistance welding and mechanical joining to share their latest innovations and developments at an international level.

Topics:

- E-Mobility transformations and challenges in welding and joining.
- Light-weight designs and assemblies with AHSS, die-casting aluminum, dissimilar materials.
- Welding and joining of battery cells, modules and packs.
- Welding and joining of powertrain and power electronics.
- Digitalization of welding, simulations, digital twins and AI.
- Welding process monitoring and weld quality inspections.
- Welding equipment, machines, and adaptive controls.
- Electrode materials, tip dressing, and tooling techniques.
- New joining techniques, mechanical joining (SPR and clinching) and hybrid joining processes.

Language:

All papers and presentations will be in English.

Important dates:

Deadline for submission of title and abstract (½-1 page):	- 30 April 2024
Deadline for submission of full paper (8-12 pages):	- 31 July 2024
Seminar and conference dates:	- 18-20 September 2024

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PRELIMINARY PROGRAM

Wednesday, 18 September 2024:

- 11:00 – 12:00 Registration
- 12:00 – 13:00 Lunch**
- 13:00 – 15:00 **Workshop on SORPAS[®] with the latest developments**
New versions of SORPAS 2D and 3D and case studies – *Open to all participants*
- 15:00 – 15:30 Coffee break**
- 15:30 – 17:00 **SORPAS[®] User Group Meeting**
Presentations and discussions with SORPAS users – *Open to all participants*
- 18:00 – 20:00 Welcome Reception**

Thursday, 19 September 2024:

- 08:00 – 09:00 Registration
- 09:00 – 09:10 Welcome
- 09:10 – 10:00 **Keynote speech**
- 10:00 – 10:30 Coffee break**
- 10:00 – 12:00 **Session 1: Light-weight designs and welding of AHSS and aluminums**
- 12:00 – 13:00 Lunch**
- 13:00 – 15:00 **Session 2: Electrical vehicles, Battery welding and electrical assembly**
- 15:00 – 15:30 Coffee break**
- 15:30 – 17:00 **Session 3: Digitalization of welding, simulations, digital twins and AI**
- 19:00 – 22:00 Conference Dinner**

Friday, 20 September 2024:

- 09:00 – 10:30 **Session 4: Welding machines, electrodes, and control technologies**
- 10:30 – 11:00 Coffee break**
- 11:00 – 12:00 **Session 5: New joining techniques, mechanical joining, and hybrid joining**
- 12:00 – 14.00 Lunch and Closing Remarks**

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VENUE INFORMATION



Conference Venue and main Hotel:

The Eton Hotel Shanghai
No.535 Pudong Avenue
Pudong, 200001 Shanghai, China
上海裕景大饭店
上海, 浦东新区, 浦东大道535号

Phone: +86 21 3878 9888
<https://www.etonhotelshanghai.cn/>



Transportation:

The Eton Hotel is located in the booming Pudong district on the east banks of the Huangpu River, across the water from the stunning Bund in Shanghai. The hotel is just steps from Pudong Avenue subway station and a 30 minutes walk to the Oriental Pearl TV Tower. Pudong is one of China's most important financial and business hubs with a forest of skyscrapers.

Shanghai (PVG - Pudong Intl. Airport) - 45 min drive
Shanghai (SHA - Hongqiao Intl. Airport) - 50 min drive
Shanghai Railway Station - 25 min drive

Other Hotels nearby:

Novotel Atlantis Shanghai
No.728 Pudong Avenue
Pudong, 200120 Shanghai, China

Phone: +86 21 5036 6666

<https://all.accor.com/hotel/3019/index.en.shtml>

Hilton Garden Inn Shanghai Lujiazui
No 506 Shangcheng Road, Block B
Pudong, 200120 Shanghai, China

Phone: +86 21 3891 9988

<https://www.hilton.com/en/hotels/shapdgi-hilton-garden-inn-shanghai-lujiazui/>

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REGISTRATION

Participant:

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

Participation:

	Registration before 15th August 2024	Registration after 15th August 2024
<input type="checkbox"/> Seminar & Conference (19-20 September 2024)	€95 (Euro) CNY ¥3,000	€435 (Euro) CNY ¥3,300
<i>All prices are exclusive of any applicable taxes and/or fees.</i>		
<input type="checkbox"/> SORPAS [®] Workshop and User Group Meeting (18 September 2024):		Free

Payment:

Bank transfer in EUR to SWANTEC Software and Engineering ApS
Danske Bank, Erhverv Direkte, Holmens Kanal 2-12, 1092 Copenhagen, Denmark
IBAN: DK6530004260599852. SWIFT: DABADKKK
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