Silesian University of Technology

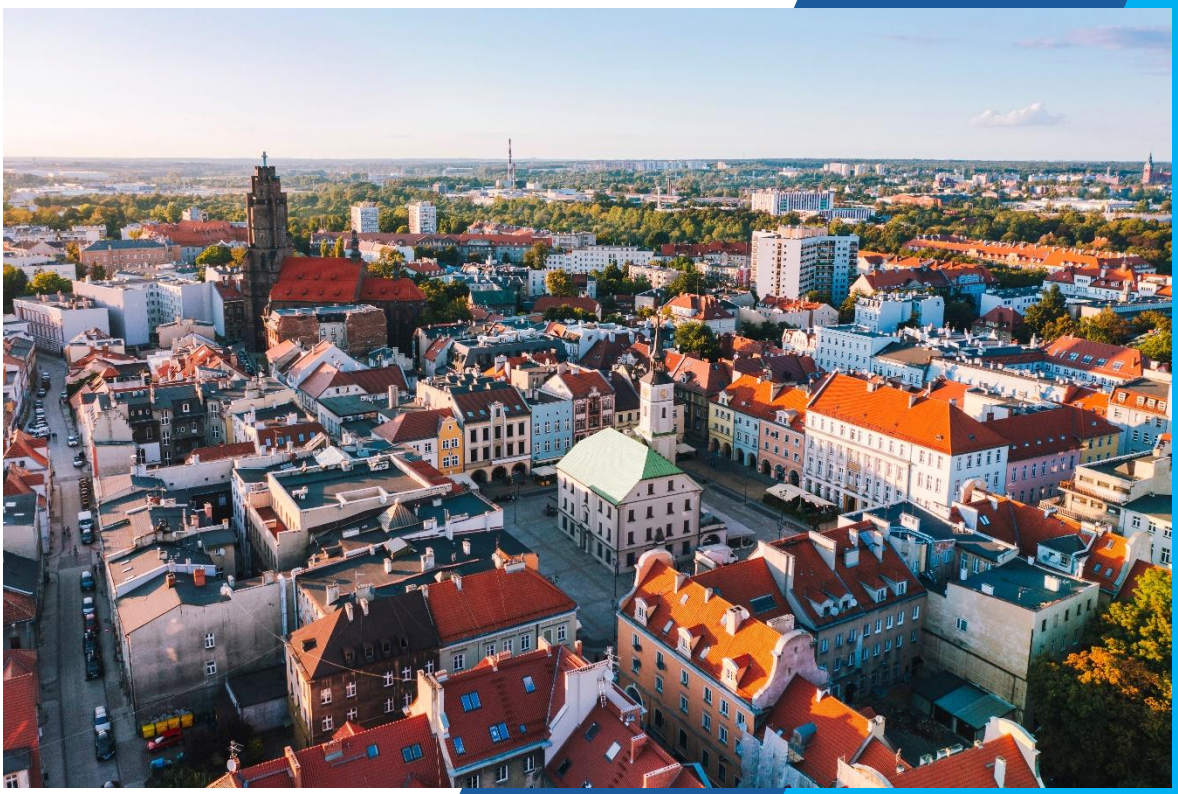
SWANTEC

Polish Welding Society

The 12th International Seminar & Conference on

ADVANCES IN RESISTANCE WELDING AND MECHANICAL JOINING

25-27 November 2026 | Gliwice, Poland



ANNOUNCEMENT

Organizers

- SWANTEC Software and Engineering ApS, Denmark
- Silesian University of Technology - SUT, Poland
- Polish Welding Society (Polskie Towarzystwo Spawalnicze - PTS), Poland

Introduction

Resistance welding and mechanical joining remain the most productive and cost-effective joining technologies for a wide range of applications in automotive, aerospace, electrical and other industries.

Continuous innovations and inventions in manufacturing industry especially the EV transition in recent years have driven rapid developments in the production and applications of new materials such as advanced high strength steels, aluminum alloys, die-cast aluminums, copper alloys and other new materials. These developments and revolutions have led to great progress in performance, cost-effectiveness and sustainability, but also brought challenges to the welding and joining of new materials and dissimilar materials, thus further promoting technological advancements in welding and joining with more intelligent welding controls, smarter monitoring technologies and digitalization in welding.

This series of biennial international seminars and conferences has been successfully organized for 11 events since 2000 by SWANTEC and co-organizing partners in Europe, North America and Asia. It has become a leading international platform for industry and welding experts to showcase and share their research, expertise, experiences and outlooks on cutting-edge technological advances in resistance welding and mechanical joining. The 12th conference will be held in Gliwice, Poland on 25-27 Nov 2026.

Topics

- State of the art and outlook in resistance welding and mechanical joining.
- Challenges in welding and assemblies with new materials, AHSS, die-cast aluminums etc.
- Welding and joining of dissimilar materials.
- Welding and joining of battery cells, modules, packs and power electronics.
- Welding equipment, machines, electrodes, tip dressing and tooling techniques.
- Intelligent welding process control and monitoring and weld quality inspections.
- Digitalization of welding and joining, simulations, optimizations, digital twins and AI.
- Mechanical joining (SPR and clinching) and hybrid joining techniques.

Language

All presentations will be in English.

Important dates

Deadline for submission of abstract (300-500 words /one page): - **20 August 2026**

Dates of Workshop, Seminar and Conference: - **25-27 November 2026**

HISTORY SINCE 2000

- **1st: Oct 2000, Copenhagen, Denmark**
  (SWANTEC, Institute for Joining of Materials)
- **2nd: Nov 2002, Aachen, Germany**
  (SWANTEC, ISF-RWTH Aachen University)
- **3rd: Nov 2004, Berlin, Germany**
  (SWANTEC, BAM Institute)
- **4th: Nov 2006, Wels, Austria**
  (SWANTEC, Fronius)
- **5th: Sept 2008, Toronto, Canada**
  (SWANTEC, HUYS Industries)
- **6th: Sept 2010, Hamburg, Germany**
  (SWANTEC, Harms-Wende)
- **7th: Sept 2012, Busan, Korea**
  (SWANTEC, I S Korea, Dong-Eui University)
- **8th: Sept 2014, Baveno, Italy**
  (SWANTEC, SINTERLEGHE)
- **9th: Apr 2016, Miami, USA**
  (SWANTEC, HUYS Industries, American Welding Society (AWS)
- **10th: Sept 2018, Esslingen, Germany**
  (SWANTEC, University of Esslingen)
- **11th: Oct 2024, Shanghai, China**
  (SWANTEC, Shanghai Jiao Tong University, INFOMASS)

Previous Participants:

- Aachen University (RWTH, Germany)
- ArcelorMittal (France, USA)
- BMW (Germany)
- Danfoss (Denmark)
- Ford (USA)
- Harms-Wende (Germany)
- JFE Steel (Japan)
- Ohio State University (USA)
- Shanghai Jiao Tong University (China)
- SSAB (Sweden)
- The Welding Institute (TWI-UK)
- University of Lisbon (Portugal)
- Volkswagen (Germany)
- Amada (Germany)
- Audi (Germany)
- BOSCH (Germany)
- Dong-Eui University (Korea)
- Fronius (Austria)
- Hyundai (Korea)
- KUKA (Germany)
- Opel (Germany)
- Silesian University of Technology (Poland)
- TATA Steel Europe (NL)
- ThyssenKrupp Steel (Germany)
- University of Waterloo (Canada)
- Volvo (Sweden)
- American Welding Society (AWS-US)
- BaoSteel (China)
- Daimler (Germany)
- FIAT (Italy)
- GM (USA)
- Infomass Information Sci. & Tech. (China)
- Nippon Steel (Japan)
- POSCO (Korea)
- SLV Duisburg (Germany)
- Technical University of Denmark
- Toyota (Japan)
- US Steel (USA)
- Welding Institute (Poland)

CONFERENCE VENUE

The Education and Congress Centre of Silesian University of Technology

ul. Konarskiego 18 B

44-100 Gliwice, Poland

+48 32 237-23-66

https://www.polsl.pl/rju2-cek/en/

Accommodation:

A variety of hotels are available in the vicinity of the conference venue.

Five hotels ranked with 3-4 stars in walking distance:

- Hotel Diament Plaza Gliwice (★★★★)
- Hotel Royal (★★★)
- Hotel Silvia Gold Gliwice (★★★)
- Qubus Hotel Gliwice (★★★)
- Hotel Malinowski Business (★★★)

There are 6 additional hotels of 1-3 stars within 2 km and additional accommodation in more than 20 budget apartments (unrated) in Gliwice.

Transportation

By plane

- Katowice Airport (KTW) ~40 km
- Krakow Airport (KRK) ~100 km
- Warsaw Airport (WAW) ~350 km

By train

Gliwice Train Station (~1.5 km to venue).

By car

Gliwice is located in southern Poland at the crossing of A1 and A4 highways.

Public transport is widely available. Short and long-distance trains and buses are operating daily.

12th ARWMJ
25-27 November 2026
Gliwice, Poland

PRELIMINARY PROGRAM

Wednesday, 25 November 2026

11:00 – 12:00	Registration
12:00 – 13:00	*Lunch*
13:00 – 15:00	**Workshop on SORPAS® with the Latest Developments and Applications**
	New versions of SORPAS 2D and 3D and case studies – *Open to all participants*
15:00 – 15:30	*Coffee break*
15:30 – 17:00	**Workshop on Predictive Digital Twins for Welding and Joining Processes**
	Presentation, demonstration and discussions – *Open to all participants*
18:00 – 20:00	*Welcome Reception*

Thursday, 26 November 2026

08:30 – 09:00	Registration
09:00 – 09:10	Welcome
09:10 – 10:00	**Keynote Speech**
10:00 – 10:30	*Coffee break*
10:30 – 12:00	**Session 1: Challenges in welding of AHSS, aluminums, dissimilar materials**
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 and joining, simulations, digital twins and AI**
19:00 – 22:00	*Conference Dinner*

Friday, 27 November 2026

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*
14:00 – 16:00	**Visit to the University or GIT laboratories**

The 12th International Seminar & Conference on

Advances in Resistance Welding and Mechanical Joining

25-27 November 2026, Gliwice, Poland

REGISTRATION

Participant:

Name: _____ ☐ Ms. ☐ Mr. ☐ Dr. ☐ Prof.

Organization: _____

Address: _____

Postal or Zip: _____ City: _____

Country: _____

Phone: _____

E-mail: _____

Participation:

	Registration before 20th October 2026	Registration after 20th October 2026
☐ **Seminar & Conference** *(26-27 November 2026)*	**€395** (Euro)	**€435** (Euro)

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

☐ **SORPAS® Workshop** *(25 November 2026)*: **Free**

Payment:

☐ **Bank transfer**
Danske Bank, Erhverv Direkte, Holmens Kanal 2-12, 1092 Copenhagen, Denmark
IBAN: DK6530004260599852. SWIFT: DABADKKK
Notice: Your name in the transfer reference is necessary for identification.

☐ **Send invoice to me** (*VAT number for companies in EU countries:* _____)

Please return to:

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