SCHEDULE

KFB Labs LIVE.

Future of Testing with SIEMENS

Hands-on workshops featuring cutting-edge Simcenter solutions for testing and simulation — live, inside the advanced labs of one of Europe's most sophisticated acoustic research centers.

May 28–29, 2026 | WROCŁAW, POLAND

DAY 1

Thursday, 28 May 2026

9:00 Registration & welcome coffee
Coffee and networking

10:00 Official Welcome
KFB Labs & Siemens Digital Industries Software

10:15 Keynote
The Age of Engineers: the most transformative era in human history

11:00 **LIVE Workshops — Session I**
LAB D1 · LAB B2 · 4 concurrent workshops

13:30 Lunch

14:30 **LIVE Workshops — Session II**
LAB A1 · LAB B1 · 3 concurrent workshops

16:30 Day wrap-up

19:00 **Dinner at Q Hotel Plus Wrocław Bielany**
Networking dinner & talk on AI trends in engineering

DAY 2

Friday, 29 May 2026

9:00 Keynote
The Meta trend in Robotics for the Decade Ahead

9:45 Coffee break
Networking

10:00 **LIVE Workshops — Session III**
LAB B1 · LAB P1 · LAB S1 · 3 concurrent workshops

12:30 Closing & Farewell
Certificates of participation

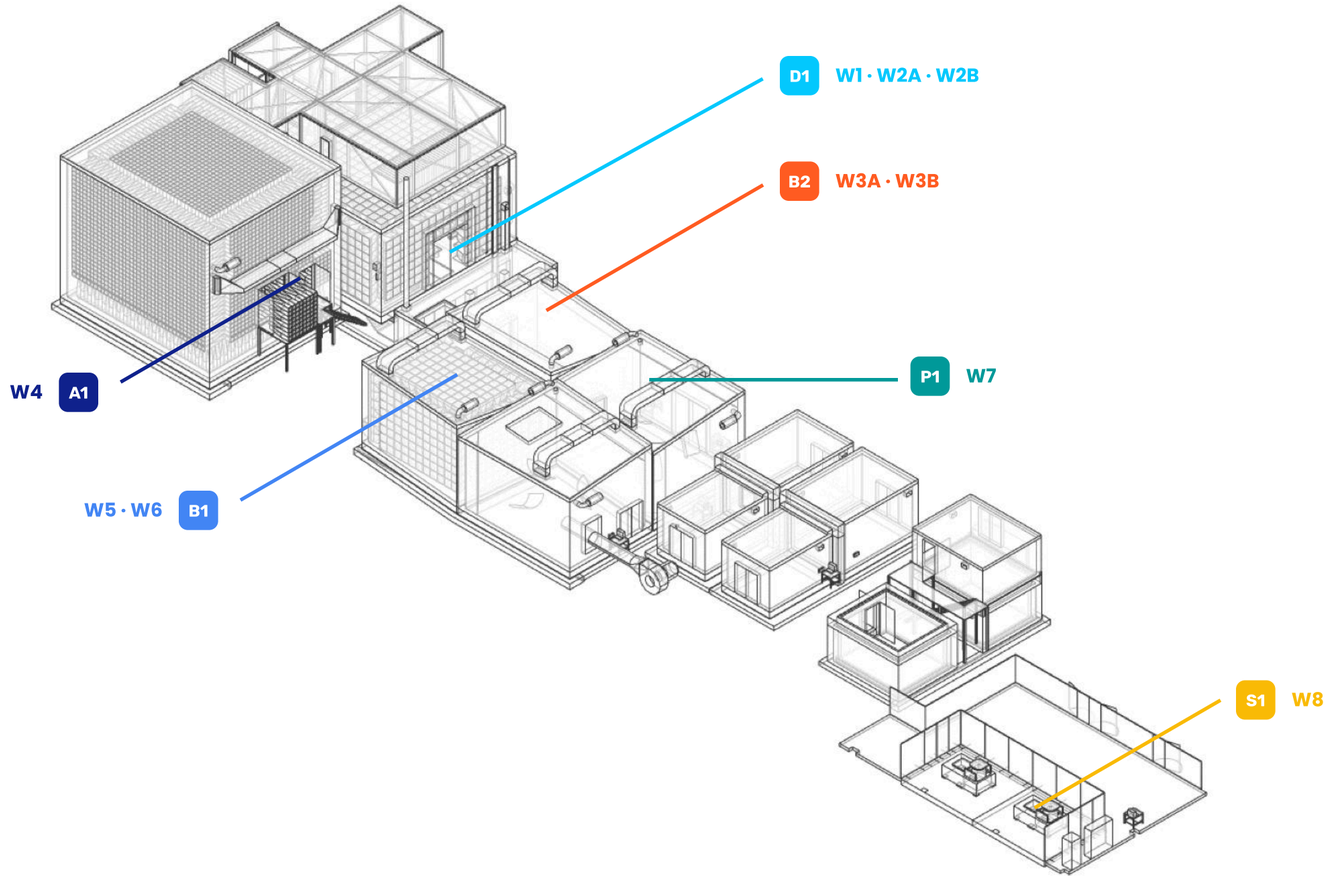
Important!

All workshops in this session take place simultaneously.
During registration, participants will be assigned to groups.

VENUE

Acoustic Research and Innovation Center

Oławska 8, Domasław k. Wrocławia · 14 laboratories



Research laboratories

D1 **LAB D1** — Acoustic Dynamometer
W1 · W2A · W2B

B2 **LAB B2** — Acoustic chamber
W3A · W3B

A1 **LAB A1** — Semi-Anechoic 50Hz chamber with Full Anechoic option
W4

B1 **LAB B1** — Semi-Anechoic 100Hz chamber
W5 · W6

P1 **LAB P1** — Reverberation chamber
W7

S1 **LAB S1** — Shaker 60 kN
W8

Other laboratories

P2 · Reverberation chamber

V1, V2 · Reverberation chambers set

H1 · Reverberation chamber

H2 · Chamber with raindrop generator

MAT · Materials lab

E-LAB · Electronics lab

Listening rooms — jury tests

SCHEDULE, SESSION I

Thursday, 28 May 2026

D1 WORKSHOP 1 — SESSION I

Vehicle NVH Testing on a Chassis Dynamometer

- Recording vibroacoustic signals across a range of vehicle operating conditions on the dynamometer.
- Comparing acoustic and vibration responses across different speeds and rough road-surface simulations.
- Demonstrating the impact of additional acoustic insulation materials on in-cabin acoustic comfort.

D1 WORKSHOP 2A — SESSION I

Laser Vibrometry for Experimental Modal Analysis

- Identifying the optimal operating point with accelerometer-based run-up measurements.
- Laser scanning of a selected structural region under representative excitation conditions.
- Transferring and preparing measurement data for further modal analysis in an engineering environment.

D1 WORKSHOP 2B — SESSION I

Modal Analysis: from Simulation to Test Correlation

- A full walkthrough of the modal analysis process — from the CAD model and CAE simulation through pre-test planning to experimental testing.
- Carrying out modal measurements using a modal shaker and impedance head.
- Updating and correlating the numerical model against test data in Simcenter 3D.

B1 WORKSHOP 3A — SESSION I

Robotic Sound Intensity Scanning

- Demonstrating acoustic radiation mapping using a Weles 3D sensor and robotic positioning.
- Generating repeatable measurement points based on the object's scanned geometry.
- Direct transfer of geometry and measurement results into a CAD/FEA environment.

SCHEDULE, SESSION II

Thursday, 28 May 2026

B2 WORKSHOP 3B — SESSION II

Simulating Acoustic Fields, Sound Power and Radiation

- Assessing acoustic fields, sound power and radiation using geometry and measurement data gathered during testing.
- Importing the geometry scan directly into Simcenter 3D.
- Combining test and simulation results for a comprehensive evaluation of the object's acoustic behaviour.

A1 WORKSHOP 4 — SESSION II

Component Analysis for Buzz, Squeak and Rattle (BSR)

- A live demonstration of a typical BSR test on vehicle interior components.
- Inducing vibration with a BSR shaker to replicate real-world operating conditions.
- Identifying the source of unwanted noises and supporting their elimination at the design level.

B1 WORKSHOP 5 — SESSION II

Automated Sound Power Measurements with Robotics

- Demonstrating sound power measurement using the microphone method in line with ISO 3745.
- Automating the measurement sequence through robotic positioning of microphones or the test object.
- A case study featuring a selected consumer device offering a consistent, repeatable noise emission profile.

SCHEDULE, SESSION III

Friday, 29 May 2026

B1 WORKSHOP 6 — SESSION III

ATF & STF Transfer Path Analysis and Acoustic Imaging

- Analysing acoustic and structural transfer paths in complex technical systems.
- Live measurements demonstrated on a special-purpose machine cab or comparable multi-source structure.
- Extending the analysis with dominant noise source localisation using a microphone array.

P1 WORKSHOP 7 — SESSION III

Sound Insulation of Multi-Layer Structures: Testing, Simulation & Validation

- Testing the sound insulation of multi-layer structures using the Transmission Loss method between reverberation chambers.
- Demonstrated on typical partitions such as doors, windows or lightweight composite panels.
- Recording and analysing results using a multi-microphone measurement array.

S1 WORKSHOP 8 — SESSION III

Durability and Fatigue Testing on a Shaker

- Running structural endurance and reliability tests using Random, Sine, SAWR and Shock excitation profiles.
- Subjecting mechanical and electronic components to controlled vibration loading.
- Live demonstrations featuring lightweight structures, electronic components and unmanned aerial systems.

Event localisation

VENUE

KFB Labs is a technology hub where engineering meets science. Specialising in intelligent systems, advanced testing and innovative engineering, its ARIC research centre in Domasław houses 14 world-class laboratories.

ATTENDANCE

Attendance is free of charge, but places are limited and required registration.

CATERING

Coffee, lunch (day 1), and drinks throughout the day.

DINNER

Q Hotel Plus Wrocław Bielany,
st. Szwedzka 7, Bielany
Wrocławskie

REGISTRATION

events@kfb-technologies.com

ADDRESS

Acoustic Research
and Innovation Center
Oławska 8, Domasław, Poland
(approx. 20 km from Wrocław)

BY CAR

20 minutes from Wrocław city centre GPS: 51.05°N, 16.94°E.
Free on-site parking available

FROM THE TRAIN STATION

Wrocław Main Station ~40 minutes by taxi / Uber

FROM THE AIRPORT

Wrocław Copernicus Airport (WRO) — approx. 25 min by taxi or rideshare

KFB LABS

Endless Possibilities for a Better Future