

Join us at the

SOLVAY International Brazing Seminar 2026 **- Furnace- and Flame-Brazing of Aluminium -**

June 16 & 17, 2026
in Bad Wimpfen/Germany*

Purpose of the Seminar

Join us for a technical training seminar designed to elevate your expertise in aluminium brazing—a critical technology for advanced thermal management solutions. This program dives deep into the manufacturing practices that drive performance and reliability in heat exchangers and complex assemblies. We will focus on three core pillars of industrial-scale aluminium brazing:

- Controlled Atmosphere Brazing (CAB) for aluminium heat exchangers using non-corrosive NOCOLOK® Flux
- Flame Brazing for aluminium
- Best-Practice Methodologies to ensure your brazing process meets the highest standards of efficiency and quality

The event will be held at the conference rooms of “Hotel Neues Tor” in close proximity to the production site of Solvay GmbH, Bad Wimpfen, Germany. The seminar language will be English.

Who should attend?

This two-day seminar is a must for professionals shaping the future of thermal management systems in **automotive, new energy vehicles, heating, ventilation, air conditioning, energy storage, data center cooling, etc..** Ideal participants include:

- Technical specialists seeking in-depth knowledge of NOCOLOK® furnace and flame brazing processes
- Design and production engineers working on aluminium assemblies such as condensers, evaporators, and pipework for advanced cooling systems
- Production engineering managers responsible for daily brazing operations and process optimization
- Quality management professionals involved in design, production, compliance, and standards (including ISO 9001:2015)

* Bad Wimpfen is approximately 130 km from Frankfurt airport and 90 km from Stuttgart airport

SEMINAR PROGRAM

Presenters Dr. Sebastian Gutmann – Solvay GmbH
Hynek Pawera - Solvay GmbH
Dr. Alexander Rehmer – Solvay GmbH
Roman Barta - Solvay GmbH

The following topics will be covered throughout the 2-day seminar:

Introduction to brazing technology (applies to furnace and flame brazing)

- What is brazing and what are the advantages?
- Where does brazing fit in joining technology?
- The fundamental rules of successful brazing

Controlled atmosphere brazing (CAB)

- Factors for successful brazing
- Requirements for cleaning methods
- Guidelines for flux application
- Brazing flux characteristics and its role in the process
- Flux application methods incl. Paint Flux and Pastes
- The furnace brazing process and brazing reactions
- Process analysis case study
- CAB equipment selection

Metallurgy and materials (applies to furnace and flame brazing)

- Basic metallurgy
- Aluminium alloys for CAB (non-corrosive flux) furnace brazing
- Filler materials and their available forms
- General metallurgical consideration
- Joint clearances/ product fit-up
- Filler metal management - potential erosion aspects (core alloy dissolution)

Development of brazing fluxes

- Applications of fluxes for new energy vehicles
- Sustainable solutions
- Post Braze Flux Residue
- Flux-Coolant Interactions

Troubleshooting problems encountered in the furnace brazing of aluminium

- Brazing failures and parameter specifics
- Identification of failure parameter
- Parameter adjustment and control
 - Temperature
 - Flux load and its uniformity of coating
 - Furnace atmosphere
 - Joint geometry
 - Filler metal availability
 - Cleanliness

Flame brazing aluminium and its alloys

- Flux function
- Flame brazing process
- Correct flux / correct brazing temperature / right gap
- Corrosive flame brazing
- Non-corrosive flame brazing

Visit to the NOCOLOK® Research & Innovation Center

- Visit the laboratories and meet our researchers
- Join a live demonstration of furnace brazing and metallographic investigation
- Visit to the NOCOLOK® flux production unit

Further information:

- All delegates will be given a folder when they arrive at the location. This will contain brief notes on each of the topics that will be covered by the presenters during each of the two days of the seminar.
- **Please note that delegates will be responsible for booking and settling their own hotel bill.**
- The seminar will begin at **8:45 on Tuesday, June 16th 2026**, and is expected to finish at about **16:45 on Wednesday, June 17th 2026**.
- The cost of the seminar will be **€ 880 plus tax (VAT/MWSt/etc.). 200€ early bird discount will be applied for bookings received until February 28th, 2026**
- A buffet lunch (included) will be provided during both days of the event. All delegates are invited to join a city tour of the historical town center of Bad Wimpfen and attend the Informal Seminar Dinner as guests of SOLVAY on the evening of **Tuesday, June 16th, 2026**.
- Invoices for attendance at the Seminar will be sent by SOLVAY directly to the delegate by e-mail and payment needs to be made **on or before May 15th, 2026**.
- Please note that the available places on all of the previous Seminars were booked very quickly. As a result, and since space is limited to a maximum of 24 delegates, we would **strongly recommend** that to avoid disappointment you make your booking **on the Form that accompanies this Programme**, and return it to SOLVAY, **by e-mail please**, as soon as possible. Please note firm registration to the seminar is subject to receipt of payment in due time.
- **Please note:** Early registration for the Seminar is particularly important for delegates who will require a Visa to enter the countries of the European Union. The issue of a Visa can take up to 10 weeks, and often requires the applicant to present a letter of invitation to the seminar, together with his application for a Visa, to the **German Embassy in his country of residence**. Delegates who require a formal letter of invitation should indicate this fact, so that SOLVAY can arrange for one to be sent to you.

We look forward to receiving your booking in the very near future.