

5th Aalen Materials Microscopy Day

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Materials microscopy –
a powerful tool for materials development and evaluation



A²MMT V
July 24th, 2025

Motto: Materials microscopy – a powerful tool for materials development and evaluation

Time	Program	Speaker
from 8:30 h	Arrival and registration	
9:30 h	Opening and overview about IMFAA research	Prof. Dr. Gerhard Schneider, Dr. Timo Bernthaler, Hochschule Aalen
10:00 h	Trace and tramp elements in green steels: impact on structure and properties	Dr. Oleksandr Glushko, Montanuniversität Leoben
10:30 h	Traction batteries in commercial vehicles and their analytics	Dr. Matthias Korn, MAN Truck & Bus SE
11:00 h	Coffee break	
11:30 h	ML-assisted image quality improvement in microscopy	Patrick Krawczyk, Hochschule Aalen
12:00 h	Where images discover secrets: Microscopic methods for failure analysis	Dr. Christian Hollerith, Infineon Technologies AG
12:30 h	Lunch break	
13:30 h	Microscopy of aging phenomena in lithium-ion batteries	Christiana Malchus, Hochschule Aalen
14:00 h	Magnetic Microscopy	Marius Böttle, Dominic Hohs, Hochschule Aalen
14:30 h	Coffee break	
15:00 h	Automated and AI-supported microscopic workflows for quality evaluation and inspection	Amit Choudhary, Matias Volman, Matworks GmbH
15:30 h	Efficient material analysis in the connected laboratory	Konstantin Schade, Carl Zeiss Industrielle Messtechnik GmbH
16:00 h	Lab tour and end of Materials Microscopy Day Aalen	

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Registration

We look forward to your registration by July 10th, 2025 online at www.hs-aalen.de/imfaa/a2mmt.

The fee (including meals) is €150.00 plus VAT. Cancellation by July 14th, 2025 at the latest is free of charge. If canceled later, the full amount will be charged.

Information on the General Data Protection Regulation can be found on our registration portal.

Organizer and venue

Hochschule Aalen

Institut für Materialforschung Aalen (IMFAA)

Beethovenstraße 1
73430 Aalen

www.hs-aalen.de/imfaa

Please address organizational questions to:

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The event takes place in the campus part Beethovenstrasse in the **Aula- und Hörsaalgebäude.**

Information on hotels can be found at the Tourist Information Office of the City of Aalen at www.aalen.de