7TH MATFEM CONFERENCE

12–13 October 2026

Schloss Hohenkammer

Register now!

BACKGROUND

MATFEM was founded in 1993 and is focussed on accurate material modelling in finite element analyses (FEA). Today there are three branches:

FEM Services offers consulting in FEA with focus on non-linear material behaviour. **CommonLab** offers the characterisation of metallic and polymeric materials for FEA and cooperates with seven partner labs for the experimental work. **SoftMat** develops material models for FEA. The main software product is the modular material model MF GenYld + CrachFEM, which is compatible with several commercial explicit-dynamic FEA codes. Principal areas of application are sheet metal forming and crashworthiness of metals, polymers and composites.

CONFERENCE

The first five MATFEM Conferences were single-day events. Extending the 6th Conference to one and a half days was a success, so we'd like to carry on with this concept.

Material scientists, experts in material testing, experts in material mechanics and CAE users from the industry are invited to contribute.

LOCATION

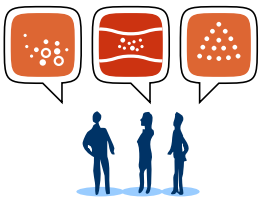
The 7th MATFEM Conference will take place on Schloss Hohenkammer, a seminar centre in a castle, some 30 km off Munich airport.

Schloss Hohenkammer
Schlossstraße 20
D-85411 Hohenkammer
Germany

phone:+49 (0)81 37 93 40
http://www.schlosshohenkammer.de/

CONFERENCE FEES

Industry	regular	**380** euros
	early bird	**310** euros
Academic	regular	**250** euros
	early bird	**200** euros
Speakers		free



Registration deadline is **4 September**. Early bird rates are available to those who registered before **17 July**. The fees are per participant and include lunch, refreshments and proceedings. Accommodation is not included in the fee.

ACCOMMODATION

Participants are kindly asked to arrange for their own accommodation. Hotel rooms are available at Schloss Hohenkammer for 153 euros per night. When booking, please use the booking code “7th MATFEM Conf”.

SCHEDULE

The conference begins on Monday, **12 October** at 13:30h with two afternoon sessions. Participants are invited to a dinner in the adjacent manor house at 19:00h. On Tuesday, **13 October**, three further sessions conclude the conference. The conference is scheduled to end around 16:00h.

MONDAY
12
OCTOBER

12:30 Reception and snack

13:30 Welcome address

Session I: Materials in CAE

13:40 **Millions of cars: How material models help make every single one safe** • R. Lingbeek • Autoliv

14:10 **Current challenges in modelling battery components** • N.N.

14:40 **Optimization and physics-informed AI/ML** • H. Gese* · C. Huỳnh · K. Komeilizadeh · D. Bekel • MATFEM

15:10 Coffee break

Session II: Polymers

15:50 **General strategy and new features in MF GenYld 4.5** • G. Oberhofer · A. Heath · M. Oehm • MATFEM

16:15 **A validation of a post-consumer recycled PC-ABS material with triaxial failure criterion for a middle arm rest** • F. Schüssler • LG Chem Europe GmbH

16:40 **Process-aware multiscale modeling of mechanically recycled glass fiber-reinforced thermoplastics for crash-relevant simulations** • H. Grimm-Strele[1] · A. Jackstadt[2] • [1]Fraunhofer ITWM · [2]Fraunhofer IWM

17:05 **Simulation of the ductile-brittle transition for PC and PMMA** • M. Reißner* · M. Oehm · C. Kartal • MATFEM

19:00 Dinner

TUESDAY
13
OCTOBER

Session III: Crushable materials

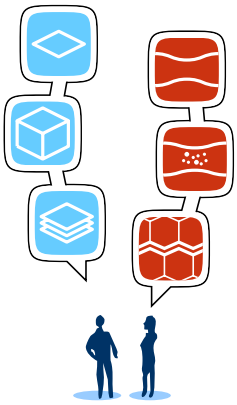
08:30 **Testing procedure for crushable and elastomeric foams**
• E. Hontiyuelo* · J. Ferrer · A. Tobías • NewGenTechs

08:55 **A novel approach for an integrated simulation process chain of foamed high voltage battery packs under crash and shock loading using MF GenYld + CrachFEM** (to be confirmed)
• M. Groß[1]* · G. Oberhofer[2] · M. Reißner[2] • [1]BMW AG · [2]MATFEM

09:20 **Crash behavior of additively manufactured metallic lattice structures: material characterization, modeling, and simulation-based validation** • H. Lanzerath[1] · A. Bach[1] · A. Haufe[2] · V. Suske[2] • [1]Ford-Werke GmbH · [2]DYNAmore GmbH

09:45 **A new material model for lattice structures, foams and honeycombs** • K. Komeilizadeh* · G. Oberhofer · H. Dell • MATFEM

10:10 Coffee break



Session IV: Castings

10:50 **New developments in automotive cast components** • N.N.

11:15 **A study on HPDC-aluminium simulation with cast mapping in LS-Dyna using CrachFEM** • S. Wu • ShareFEA

11:40 **Integrative simulation of Al-LPDC and Al-HPDC: towards robust mapping** • J. Zimmermann[1] · M. Heitzer[1] · G. Mokios[2] · P. Fotopoulos[2] · M. Richter[3] · M. Oehm[3] · H. Gese[3] • [1]MAGMA Giessereitechnologie GmbH · [2]Beta cae systems · [3]MATFEM

12:05 **The Ecosystem and Test Driven Development of MFGenYld + CrachFEM** • D. Bekel* · M. Oehm · A. Heath • MATFEM

12:30 Lunch

Session V: Sheets & Extrusions

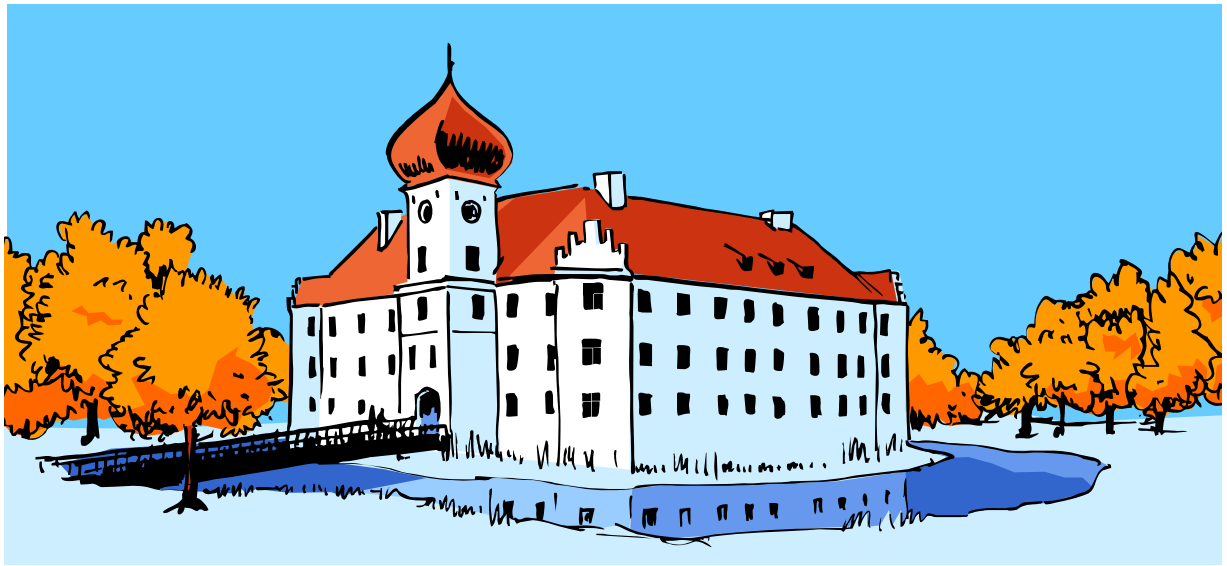
14:00 **On the characterization of the strain dependent change in the unloading evolution of modern metallic materials with the OSRC method** • A. Häckel* · D. Naumann · M. Merklein • LFT FAU Erlangen-Nürnberg

14:25 **Crashworthiness simulation of aluminium extrusion profiles with MF GenYld + CrachFEM** • R. Schwarzer[1]* · H. Gese[2] · M. Rund[3] • [1]Kirchhoff Automotive · [2]MATFEM · [3]COMTES FHT a.s.

14:50 **Efficient crash assessment of steels by means of the L-angle compression tests** • H. Rösen · T. Böttcher · R. Röttger · S. Sikora • thyssenkrupp Steel Europe AG

15:15 **Miniaturized specimens for local mechanical characterization of advanced materials and interfaces for the material modelling** • M. Uhlík · P. Konopík · M. Rund · J. Fousek · J. Džugan • COMTES FHT a.s.

15:40 Closing remarks



TERMS AND CONDITIONS

VAT will be added to the registration fee as applicable. The registration fee is due 14 days after invoicing.

Free cancellation is possible until 4 Sept 2026. Participants who cancel between 5 September 2026 and 5 October 2026 are liable for 50% of the registration fee. Participants who cancel after 5 October 2026 or who do not attend the conference are liable for the entire registration fee. The number of participants is limited.

MATFEM reserves the right to cancel the event in the light of bookings until 4 September 2026. In the event of cancellation, MATFEM will refund all fees paid to MATFEM with respect to the event.

REGISTRATION

For questions about the registration, please contact Mr Martin Oehm. Please send your **registration** to:

MATFEM
Ingenieurgesellschaft mbH

Pettenkoferstr. 29
D-80336 München
Germany

phone +49 (0) 89 890 57 94- 15
e-mail martin . oehm @ matfem . de