

# MEFORM

## INVITATION TO MEFORM 2026 SHAPING INNOVATIONS. FORMING MATERIALS. CREATING THE FUTURE

Dear Colleagues, Partner, Friends,

You are invited to join leading experts from research and industry to our conference MEFORM 2026. Explore the latest trends in sustainable production, innovative forming processes, AI-supported workflows, and advanced material design and gain insights you can apply directly in your work.

### Highlights in addition to regular sessions:

- Workshops (in parallel, choose one):
  - a) Designing the next generation of low-density steels: from the concept to component within the LightForge Project
  - b) AI-driven literature review: fast and comprehensive research analysis tools
- Panel discussion to sustainable and carbon-neutral metal forming: industry leaders discuss CO<sub>2</sub>-neutral production, technologies, recycling, and policy impacts

Join us at MEFORM 2026 and shape the future of metal forming!

Best regards,

Ulrich Prah and Madlen Ullmann in the name of the complete team  
of **Institute of Metal Forming (IMF)**,  
**TU Bergakademie Freiberg**

Thursday | 19/03/26



**11:00 12:00 Reception**

12:00	12:10	Greeting from the rector	J. Emes   Rector, TUBAF
12:10	12:30	Welcome	U. Prah   IMF, TUBAF
12:30	12:35	Introduction session 1: Sustainable light metal processes & future technologies	Chairman: R. Kawalla
12:35	12:55	Twin-roll casting and CONFORM™ for magnesium long products	C. Kaden, M. Ullmann, U. Prah   IMF, TUBAF
12:55	13:15	Extrusion of magnesium from the casting heat	P. Stolfig   Stolfig Leichtbau Kompetenz Zentrum GmbH

**13:15 13:25 Pitch session**

**13:25 13:55 Coffee break and industrial exhibition**

**13:55 14:05 Pitch session**

14:05	14:10	Introduction session 2: Innovative rolling & process development	Chairman: H.-W. Raedt
14:10	14:30	Exhaustive long rolling simulation of a high-performance wire rod mill using the FEM-software Qform	C.-E. Muller   Saarstahl AG
14:30	14:50	Modeling of roll wear in wire and bar steel production	C. Renzing   ESF Elbe Stahlwerke Feralpi GmbH
14:50	15:10	Practical aspects of different forming strategies of high alloyed cast materials	A. Jahn, J. Uhlig   BGH Edelstahl Freital GmbH
15:10	15:15	From knowledge to practice – onboarding and knowledge transfer in the rolling mill	K. Jani   Steeltec AG

**15:15 15:45 Coffee break and industrial exhibition**

15:45	15:50	Introduction session 3: Digital transformation & AI in forming technology	Chairman: A. Brosius
15:50	16:10	Beyond simulation: Technology development systems boost development efficiency	H.-W. Raedt   prosimalys GmbH
16:10	16:30	Copper Digital 2	H. Busch   KME Mansfeld GmbH

**16:30 16:40 Pitch session**

16:40	17:30	Panel discussion: Sustainable and carbon-neutral metal forming  Industry leaders from steel, copper, aluminum, and magnesium discuss the feasibility of CO <sub>2</sub> -neutral production in the next decade. They explore technologies like hydrogen, recycling, and process optimization, and the influence of policies and standards on sustainable metal production.	Chairman: U. Prah  U. Reinecke*, P. Stolfig**, H. Busch***, V. Loukadakis****   ESF Elbe Stahlwerke Feralpi GmbH*, Stolfig Leichtbaukompetenzzentrum GmbH**, KME Mansfeld GmbH***, ELKEME SA****
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**19:00 open end Institute evening at our technical centre with farewell ceremony for graduates and guided tour in the experimental lab**



Friday | 20/03/26



**08:30 09:00 Reception**

**09:00 09:15 Pitch session**

**09:15 10:45 Workshops**

W1: Designing the next generation of low-density steels: From concept to component within the LightForge project

P. Barriobero Vila\*, J.M. Cabrera\*, J.E.R. Castaneda\*, T. Faraji\*\*, M. Zapf\*\*, I. Calliari\*\*\*, M. Pigato\*\*\*, A. Mazzi\*\*\*, M. Oliboni\*\*\*, R. Elvira\*\*\*\*, A. Vilalta\*\*\*\*, É. Basagaña\*\*\*\*, U. Prahll\*\* | \*Universitat Politècnica de Catalunya, \*\*IMF, TUBAF, \*\*\*University of Padova, \*\*\*\*SIDENOR I+D, S.A., \*\*\*\*\*COMFORSA

W2: AI-driven literature review: Fast and comprehensive research analysis tools

F. Qayyum | IMF, TUBAF

**10:45 11:15 Coffee break and industrial exhibition**

11:15 11:20 Introduction session 4: Material design & microstructure engineering

Chairman: L. Rauch

11:20 11:40 Influence of accompanying elements on the formability of car body steels

J. Bernhardt | Mercedes Benz

11:40 12:00 Precipitation and strengthening mechanisms in Cu-0.27wt.% Sc alloy

R. Henle, A. Zilly | DHBW

12:00 12:20 Impact of ICME approach on process optimization and cost reduction: Examples from aluminium extrusion and steelmaking

V. Loukadakis\*, M. Bouzouni\*, G. Symeonidis\*\*, S. Papaefthymiou\*\*\* | \*ELKEME SA, \*\*ETEM-Gestamp, \*\*\*NTUA

12:20 12:40 Tailoring GKZ annealing for adjusting pearlite banding towards optimized formability

S. Guk, R. Schmidtchen, U. Prahll | IMF, TUBAF

**12:40 13:30 Closing remarks and snacks**

U. Prahll | IMF, TUBAF



# PITCHES & POSTERS



P1	Microstructure meets mechanics: The role of LPSO phases in magnesium alloys	F. Ueberschär, M. Ullmann, U. PrahI   IMF, TUBAF
P2	In-situ investigation of calcium effects in ZAX magnesium alloys	M. Karadimitropoulou, M. Ullmann, U. PrahI   IMF, TUBAF
P3	Recycling without compromise: Managing iron to preserve Al 6000-series formability	M. Gretschel, M. Ullmann, U. PrahI   IMF, TUBAF
P4	Under pressure: Rolling magnesium wire	M. Stirl, M. Ullmann, U. PrahI   IMF, TUBAF
P5	Influencing bond strength in roll bonded Al-Mg-Al-laminates	J. Mantel, M. Schmidtchen, U. PrahI   IMF, TUBAF
P6	Recent developments in PyRoll towards advanced wire drawing technology design	R. Pfeifer, M. Schmidtchen, U. PrahI   IMF, TUBAF
P7	AI expert system for metal forming	R. Rechenberg, M. Zapf, U. PrahI   IMF, TUBAF
P8	Process strategies for using Cu-contaminated steel scrap through controlled precipitation hardening	S. Kwiecien, S. Guk, U. PrahI   IMF, TUBAF
P9	Torsion as a physical simulator of thermomechanical rolling	A. Bednarczyk, M. Zapf, U. PrahI   IMF, TUBAF
P10	Accelerating sintering simulation by departure from diffuse interface descriptions	M. Weiner, M. Schmidtchen, U. PrahI   IMF, TUBAF
P11	Integrating crystal plasticity in forming tools for predicting microstructural attributes in low alloyed steels	F. Safari, S. Guk, U. PrahI   IMF, TUBAF

## Conference Venue:

### „Alte Mensa“

Petersstraße 5, 09599 Freiberg



google maps

## Evening Event Venue:

### IMF „Haus Formgebung“

Bernhard-von-Cotta-Straße 4, 09599



google maps



## CONTACT

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## Registration



[www.acatrain.net/meform](http://www.acatrain.net/meform)