

Thursday | 21/03/24



11:00	12:00	Reception	
12:00	12:10	Greeting from the rector	K.-D. Barbknecht Rector, TUBAF
12:10	12:30	Welcome	U. Prah IMF, TUBAF
12:30	12:35	Introduction session 1: CO ₂ -neutral and resource-efficient production, CO ₂ -free melting and heating technology for the metal industry	Chairman: W. Bleck IEHK, RWTH Aachen University
12:35	12:55	Feralpi steel towards green steel production in Riesa	U. Reinecke ESF Elbe-Stahlwerke Feralpi GmbH
12:55	13:15	Recent innovations towards CO ₂ -free steel production and industrial exhibition	F. Klose, A. Redenius Salzgitter Mannesmann Forschung GmbH
13:15	13:45	Coffee break and industrial exhibition	
13:45	13:50	Introduction session 2: Digitalization for forming technology 4.0	Chairman: U. Prah IMF, TUBAF
13:50	14:10	Automation concept for open-die forging	R. Rechenberg, U. Prah, G. Korpala, M. Pulawski IMF, TUBAF
14:10	14:30	Design and simulation of a sizing roll pass design with comparison of the influence of two-stage TM rolling compared to single-stage TM rolling	M. Molter Saarstahl AG
14:30	14:50	In-situ observation of a precipitate transformation from Cu-containing precursors into Mg ₂ Si in 6xxx Al alloys	R. Kahlenberg*, E. Kozeschnik** *Materials Center Leoben, **IWW, TU Wien
14:50	15:10	Pitches & Posters	
15:10	16:00	Snacks and poster session and industrial exhibition	
16:00	17:30	Panel discussion: „Generation Z’s lack of engineers and STEM fatigue and measures to combat it“	Moderation: K.-D. Barbknecht Rector, TUBAF
17:30	19:00	Check-In Hotel	
19:00	open end	Institute evening at our technical centre with farewell ceremony for graduates and guided tour in the experimental lab	

Friday | 22/03/24



08:30	09:00	Reception	
09:00	09:05	Introduction session 3: Quality assurance and metallography	Chairman: J. Buhl IMET, TU Clausthal
09:05	09:25	AI-Assisted characterization of recrystallization behavior in steels	G. Korpala*/**, J. Schneider*, M. Corcoran*, U. Prah** *MiViA GmbH, **IMF, TUBAF
09:25	09:45	Quality assurance in the rolling process: A comparison of two generations of dimensional measuring devices	V. Gödecke, T. Reimers LAP Measurement Technology GmbH
09:45	10:05	Effect of spheroidization annealing on pearlite banding	S. Guk*, R. Schmidtchen*, E. Augenstein**, M. Zapara**, U. Prah* *IMF, TUBAF, **Fraunhofer IWM
10:05	10:25	Development of a new test rig for torsion loading at high temperatures and industrial exhibition	F. Pursche*, C. Rößler**, D. Schmicker**, A. Wilke***, S. Dieck***, N. Herzig* *Nordmetall GmbH, **Sampro GmbH, ***DeltaSigma Analytics GmbH
10:25	11:00	Coffee break and industrial exhibition	
11:00	11:05	Introduction session 4: Copper and copper alloys in forming technology	Chairman: L. Tikana Kupferverband
11:05	11:25	Precipitating low-alloy copper alloys with scandium and hafnium: Materials technology development and potential for selected applications	J. Dölling*, A. Zilly*, U. Prah** *DHBW Stuttgart, **IMF, TUBAF
11:25	11:45	Alloy development of a dezincification-free brass for the manufacturing of brass instruments	S. Berndorf, M. Kirschner, S. Guk, U. Prah IMF, TUBAF
11:45	12:05	Trends in copper alloys – sustainable, environment friendly and future oriented	J. Riedle Wieland Werke AG
12:05	12:25	Advancing manufacturing excellence: Simulation of the CRE process for the production of special copper conductors	H. Busch, R. Kleemann KME Mansfeld GmbH
12:25	13:30	Closing remarks and snacks	U. Prah IMF, TUBAF

PROGRAM

