

Session Program

24-26 Mar 2025

**13th International Tooling Conference -
Tooling 2025**

Additive Manufacturing

Grand Hotel Trento Piazza Dante
P.za Dante, 20, 38122 Trento TN, Italy

Monday 24 March

14:30

Additive Manufacturing

Session | **Location:** Grand Hotel Trento, Room 2 | **Convener:** Faraz deirmina

14:30–14:50

Short process chain by additive manufacturing

Speaker

Dr Hans-Günter Krull

14:50–15:10

Sliding wear and nitriding behavior of HWTS 50 tool steel tailored for L-PBF process

Speaker

Jonathan Hann

15:10–15:30

Additive manufacturing of hot-work tool steel by in-situ alloying using laser powder bed fusion and directed energy deposition - Strategies to improve chemical homogeneity

Speaker

Felix Großwendt

15:30–15:50

Directed energy deposition - Arc vs. casting: Enhancements of mechanical and thermal properties of hot-work tool steels through additive manufacturing

Speaker

Mr Ulf Ziesing

15:50

Tuesday 25 March

10:45

Additive Manufacturing

Session | **Location:** Grand Hotel Trento, Room 1 | **Convener:** Bojan Podgornik

10:45-11:05

Effect of titanium carbide additivation on the microstructure and processability of H13 tool steel in PBF-LB/M

Speaker

Oliver Bürgi

11:05-11:25

Increasing the service life of press hardening tools with the innovative EvolutionClad 58 coating solution using Laser Metal Deposition

Speaker

Andreas Bartling

11:25-11:45

Design and manufacture a cost-effective, high-performance plastic injection mould using a hybrid additive-subtractive manufacturing strategy

Speaker

Dr Simon Chan

11:45-12:05

Influence of heat treatment and scan rotation on the microstructure of hot work steel manufactured using L-PBF

Speaker

Negar Panahi

12:05

Wednesday 26 March

09:50

Additive Manufacturing

Session | **Location:** Grand Hotel Trento, Room 1 | **Convener:** Nader Asnafi

09:50-10:10

High-quality refurbishing of high pressure die casting tools with Laser Metal Deposition of the hot-work tool steel Dievar

Speaker

Mr Christian Mutke

10:10-10:30

The potentials of using directed energy deposition (DED) to process a cold work tool steel for repairing purposes

Speaker

Mohammad Saleh Kenevisi

10:30

11:00

Additive Manufacturing

Session | **Location:** Grand Hotel Trento, Room 1 | **Convener:** Nader Asnafi

11:00-11:20

Multi-material steel assemblies by EB-PBF

Speaker

Carlos Botero

11:20-11:40

Microstructural analysis and wear resistance of Osprey® MAR 55 tool steel produced via Laser Powder Bed Fusion

Speaker

Lorena Emanuelli

11:40-12:00

New dual-hardening AM alloy for tooling in HPDC

Speaker

Miloslav Ognianov

12:00-12:20

Direct energy deposition of chromium-molybdenum-vanadium LMD Vanadis 4 Extra® cold work tool steel

Speaker

Dominic Bartels

12:20