

Session Program

25-27 Apr 2022

12th Tooling Conference & Exhibition - Tooling 2022

Additive Manufacturing

Conventum Conference Center
Olof Palmes torg 1, 702 22 Örebro, Sweden

Tuesday 26 April

09:10

Additive Manufacturing

Session | **Location:** KONGRESSHALL | **Convener:** Dr Ewa Persson

09:10–09:30

Increased service life of a plastic injection mold by using additive manufacturing.

Speaker

Ms Ulrika Fager

09:30–09:50

Hybrid, additive manufacturing of complex forming tools using Binder Jetting and Laser Metal Deposition

Speaker

Christian Mutke

09:50–10:10

Additively manufactured conformal cooling tool holder for wire drawing utilizing triply periodic minimal surfaces

Speaker

Joakim Larsson

10:10

10:40

Additive Manufacturing

Session | **Location:** KONGRESSHALL | **Convener:** Massimo Pellizzari

10:40–11:00

Improving fatigue strength of laser powder bed fused AISI M3:2 by hot isostatic pressing

Speaker

Mr Siyuan Qin

11:00–11:20

Resistance against abrasive wear and corrosion of a laser powder bed alloyed high chromium tool steel

Speaker

Marie Luise Köhler

11:20–11:40

Pearl® Micro TS700 powder for additive manufacturing of die casting tooling

Speaker

Peter Vikner

11:40–12:00

Microstructure and properties of a novel carbon-martensitic hot work tool steel processed by Laser Additive Manufacturing without preheating

Speaker

Dr Johannes Boes

12:20

14:00

Additive Manufacturing

Session | **Location:** KONGRESSHALL | **Convener:** Dr Harald Leitner

14:00-14:20

Industrialization of electron beam additive manufacturing process for tooling applications - A study on the process chain, productivity, quality and performance

Speaker

Christos Oikonomou

14:20-14:40

Additive manufacturing of a high-carbon tool steel powder

Speaker

Dr Horst Hill

14:40-15:00

Plasma-nitriding of a high manganese austenitic steel for additive manufacturing

Speaker

Andreas Mohr

15:00-15:20

Manufacturing of integrated cooling channels by directed energy deposition for hot stamping tools with ball burnished surfaces

Speaker

Ms Anna Komodromos

15:20-15:40

Characterization and heat treatment of an additively manufactured tool steel fabricated by laser metal deposition

Speaker

Sasan Amirabdollahian

15:40

16:10

Additive Manufacturing

Session | **Location:** KONGRESSHALL | **Convener:** Johannes Fuchs

16:10-16:30

Additive manufacturing of tool steels

Speaker

Andreas Vogelpoth

16:30-16:50

Characterization of an AISI H13 hot-work tool steel produced by Electron Beam Melting

Speaker

Federico Simone Gobber

16:50-17:10

Effect of different post-processing thermal treatments on the mechanical properties and tempering resistance of additively manufactured H13 hot work tool steel

Speaker

Dr Amirabdollahian Sasan

17:10-17:30

Overall performance comparison of conventional and printed Böhler W360 for high pressure die casting

Speaker

Mr miloslav ognianov

17:30