

Session Program

24-26 Mar 2025

13th International Tooling Conference - Tooling 2025

Fatigue

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

Tuesday 25 March

14:00

Fatigue

Session | **Location:** Grand Hotel Trento, Room 1 | **Convener:** Christoph Turk

14:00–14:20

Influence of cleanliness, carbide size and hardness on HCF strength and fatigue mechanisms in carbide-rich cold-work tool steels

Speaker

Mr Lennart Mirko Scholl

14:20–14:40

Fatigue and life-time prediction resistance of low-alloy mould steels

Speaker

Ms Marine Lachal

14:40–15:00

Effect of surface condition on high-cycle fatigue behavior of PM-HIPed high-nitrogen martensitic tool steel

Speaker

Ms Faezeh Javadzadeh Kalahroudi

15:00–15:20

Influence of microstructure on fatigue life of cryogenically treated AISI H13 steel

Speaker

Dr. Tarang Shinde

15:20

15:50

Fatigue

Session | **Location:** Grand Hotel Trento, Room 1 | **Convener:** Aydın Şelte

15:50–16:10

Microstructure, defects and fatigue response of high strength tool steels

Speaker

Katerina Chantziara

16:10–16:30

Fatigue strength in Additive Toolmaking: A study of Metal Binder Jetting and Electron Beam Melting for processing carbide-rich cold-work tool steels

Speaker

Mr Frederik Tegeder

16:30–16:50

Mean stress sensitivity for carbide-rich PM tool steels under axial and torsional loading

Speaker

Mr Lennart Mirko Scholl

16:50