

Session Program

19-22 Jun 2023



42nd International Deep Drawing Research Group Conference - IDDRG 2023

COLD AND HOT FORMING AND TRIMMING (INCL. SINGLE AND MULTI-STEP FORMING)

House of Culture, Luleå, Sweden
Skeppsbrogatan 17, 972 31 Luleå, Sweden

Monday 19 June

10:40

COLD AND HOT FORMING AND TRIMMING (INCL. SINGLE AND MULTI-STEP FORMING)

Session | **Location:** Kulturens hus Luleå, 1. Lilla Salen, Skeppsbrogatan 17, 972 31 Luleå, Schweden | **Convener:** Johan Pilthammar

10:40–11:00

Carburization behavior at elevated temperatures and mechanical properties of a hot stamped complex phase steel

Speaker

Mr Jan Henning Risse

11:00–11:20

Analysis of process limits for partial hot stamping with controlled pre-cooling by radiation exchange

Speaker

Mr Alborz Reihani

11:20–11:40

Oxygen-free resistance heating with nitrogen and silane as an energy-efficient heating process for hot stamping

Speaker

Lorenz Albracht

11:40–12:00

Study of Microstructural Evolution of Press Hardening Steels using Dilatometer and In-situ Studies for a Simulated Hot Stamping Condition

Speaker

Dr Hong Zhu

12:00–12:20

Development of Rapid Die Cooling Technology to Reduce Cycle Time in Hot Stamping Process

Speaker

Jae myoung Park

12:20

14:00

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Session | **Location:** Kulturens hus Luleå, 1. Lilla Salen, Skeppsbrogatan 17, 972 31 Luleå, Schweden | **Convener:** Gerhard Hackl

14:00–14:20

Investigation on evolution of microstructure and mechanical properties of heat-treatable aluminum alloy during hot sheet metal forming process

Speaker

Tobias Teeuwen

14:20–14:40

Numerical analysis of the load paths and the resulting damage evolution during the deep drawing of dual-phase steel

Speaker

Martina Mueller

14:40–15:00

Part quality improvement in flexible roll forming of a combined variable width and depth component

Speaker

Matthias Weiss

15:00–15:20

Development of geometry variants and forming technology for metal diaphragms to increase the efficiency of diaphragm compressors

Speaker

Mr Mikhail Solovev

15:20