

Session Program

13-17 Sept 2021

**EUROPEAN CONGRESS AND EXHIBITION ON
ADVANCED MATERIALS AND PROCESSES -
EUROMAT 2021**

***E1_Advanced materials for transport
applications***

Virtual

Monday 13 September

11:00

E1_Advanced materials for transport applications: E1_1_Alloys and Hybrids

Session | Location: Room 13

11:00-11:40

New high-strength and damage tolerant alloys for additively manufactured automotive applications (Keynote)

Speaker

Prof. Axel von Hehl

11:40-12:00

Leak proof design of in-mold manufactured metallic feedthroughs in composite components

Speaker

Mr Andreas Baumann

12:00-12:20

Very High Cycle Fatigue Behavior of Thermoplastic-Based Hybrid Laminates

Speaker

Mr Selim Mrzljak

12:20-12:40

Directional mechanical properties of thermoplastic based hybrid laminates

Speaker

Dr Maik Trautmann

12:40

14:00

E1_Advanced materials for transport applications: E1_2_Metals

Session | Location: Room 13

14:00-14:20

Hybrid Casting - An one step multi material design manufacturing process

Speaker

Mr Damian Sulik

14:20-14:40

Additive manufacturing of two aluminium alloys for the application in aviation

Speaker

Mr Siegfried Arneitz

14:40-15:00

Productivity Enhancement with Hot Isostatic Pressing of Powder Bed Fusion Titanium Parts with Shrinkage Compensation

Speaker

Eric MacDonald

15:00-15:20

Formability of advanced high-strength steels at different deep-drawing conditions

Speaker

Mr Emir Hodzic

15:20–15:40

Tribological investigations on aluminum alloy sheets for automotive lightweight applications**Speaker**

Mr Arash Shafiee Sabet

15:40

16:00

E1_Advanced materials for transport applications: E1_3_Fiber reinforced composites**Session** | **Location:** Room 13

16:00–16:20

Transfer of mechanical properties from specimens to injection molded structures under consideration of local fiber orientation**Speaker**

Prof. Joachim Hausmann

16:20–16:40

A material model for fatigue damage and degradation of short fiber composites**Speaker**

Dr Jörg Hohe

16:40–17:00

The influence of catalyst and activator on the properties of PA6 produced by T-RTM**Speaker**

Ms Joana N. Lagarinhos

17:00–17:20

Carbon Fiber Electrodes for Structural Supercapacitors**Speaker**

Mr Joaquin Artigas-Arnaudas

17:20–17:40

Flat laminate manufacturing of CF reinforced 3R-Vitrimer composites**Speaker**

Mr Andreas Krämer

17:40