

Session Program

23-25 May 2022

5th International High Manganese Steel Conference - HMNS 2022

Failure, Damage and Hydrogen

voestalpine Stahlwelt
voestalpine Stahlwelt (steel world) voestalpine-Straße 4 4020 Linz Austria

Monday 23 May

13:30

Failure, Damage and Hydrogen

Session | **Location:** Room 3 | **Convener:** Andreas Pichler

13:30–13:55

High strength medium Manganese TRIP steel with increased hydrogen resistance due to heterogeneous Mn distribution (virtual presentation)

Speaker

Dr Dirk Ponge

13:55–14:20

Hydrogen charging behavior of the UNSM processed high-Mn steels

Speaker

Jung Gi Kim

14:20–14:45

Localization, damage and fracture properties of Medium Manganese Steels

Speaker

Prof. Sebastian Münstermann

14:45–15:10

Hydrogen associated decohesion and localized plasticity in a high-Mn austenite-ferrite lightweight steel (virtual presentation)

Speaker

Xizhen Dong

15:10

15:40

Failure, Damage and Hydrogen

Session | **Location:** Room 3 | **Convener:** Daniel Krizan

15:40–16:05

Using high speed camera to understand edge cracking during hot rolling of lightweight Fe-Mn-Al-C steels

Speaker

Dr Aniruddha Dutta

16:05–16:30

Grain boundary κ -carbides in high manganese lightweight steel: Degradation assessment and potential solutions (virtual presentation)

Speaker

Mr Mohamed Elkot

16:30