

Meeting Materials - 15 December 2020					
8.30	Opening - Rob Boom				
8.35	Introduction Meeting Materials - Bert van Haastrecht (M2i)				
8.45	Nationale Agenda Materialen - Albert Polman (Amolf)				
9.00	Keynote 1 - Philip de Goey (TU/e) - Metal energy carriers: renewable fuels of the future				
9.20	Keynote 2 - Joep Broekhuijsen (Damen) - Development of materials used in Naval shipbuilding				
9.40	Q&A				
9.50	Interactive Session I & Break				
10.03	Session 1a - Durability & Reliability of Structures	Session 2a - Tribology	Session 3a - Additive Manufacturing & Metals	Session 4a - Qualify	Session 5a - Materials for Energy
Session Chair	Johan Maljaars (TNO)	Matthijn de Rooij (UT)	Ian Gibson (UT)	Wim de Waele (Ghent University)	Jilt Sietsma (TUD/4TU)
10.05	Zili Li (TUD) - Rolling contact fatigue of railway rails and wheels	Leon Jacobs (Tata Steel) - Tribology in Cold Rolling	Ali Chabok (RUG) - Laser additive manufacturing of Interstitial high entropy alloys	Cedric Verhaeghe (Damen) - Qualify-End User perspective (DSNS)	Monica Morales Masis (UT) - Vacuum-deposited Halide Perovskites and Broadband Transparent Conductive Oxides for Photovoltaics
10.20	Koen Varga and Ronald Hoogendijk (Tata Steel) - Condition Monitoring on Edger Bearings at Tata Steel	Shakil bin Zaman (UT) - Investigating coating fracture at hot stamping	Soheil Sabooni (RUG) - Mechanical-corrosion properties of 17-4 PH stainless steel manufactured using laser powder bed fusion: The influence of initial powder and post-process heat treatments	Prakash Venkatesan (TUD) - Investigating water transport processes and stability of SCIGRIP-steel interface	Amarante Böttger (TUD) - Hydrogen as an Energy Carrier: A Materials Perspective
10.35	Axel Homberg (TUD) - Monitoring corrosion inhibition by an integrated electrochemical and optical technique	Qierui Zhang (UT) - Bleeding dynamics and oil-matrix affinities of fresh and mechanically aged greases	Martin Schmidt-Niederau (voestalpine Bohler Welding Germany) - Impact of WAAM process on material characteristics	Wim de Waele (Ghent University) - Structural integrity of bi-material thick adhesive joints: a multi-scale approach	Marc Dhallé (UT) - Power-dense superconducting generators for wind convertors
10.50	Q&A	Q&A	Q&A	Q&A	Q&A
11.00	Interactive Session II				
11.10	Break				
11.18	Session 1b - Durability & Reliability of Structures	Session 2b - Tribology	Session 3b - Additive Manufacturing & Metals	Session 4b - Qualify	Session 5b - Materials for Energy
Session Chair	Johan Maljaars (TNO)	Matthijn de Rooij (UT)	Marcel Hermans (TUD)	Wim de Waele (Ghent University)	Erik Offerman (TUD)
11.20	Bart Schotsman (ProRail) - Materials science research at ProRail: How it contributes to track performance	Medard Koshigan (ASML) - Tribology and Moore's law, how friction and wear challenge NextGen chip manufacturing	Gert Willem Römer (UT) - Laser-induced Forward Transfer (LIFT) of 3D micro-structures	Sina Askarinejad (University of Cambridge) - Tribology and Moore's law, how friction and wear challenge NextGen chip manufacturing	Antoni Forner Cuenca (TU/e) - Bottom-up design of electrodes for redox flow batteries
11.35	Jesse van Kuijk (TUD) - Fatigue crack growth: a deeper understanding using potential drop through the cycle recording	Antonella Cometa (UT) - Experimental and numerical investigation of pinching phenomena in cold rolling processes	Davoud Jafari (UT) - Learning and prediction of geometrical dimensions in wire and arc additive manufacturing	Luc Mouton (Bureau Veritas) - Progress towards guidance for the certification of marine hybrid adhesive joints	Ruud Kortlever (TUD) - Electrocatalytic materials for CO2 conversion to fuels and bulk chemicals
11.50	Q&A	Q&A	Q&A	Q&A	Q&A
12.00	PRIZE Design Contest Grade2XL				
12.15	Interactive Session III				
12.25	Keynote 3 - Maria Loi (RUG) - Prospectives and challenges towards a new PV technology				
12.50 - 13.00	Closure by Rob Boom & Bert van Haastrecht				