

Program Meeting Materials - Tuesday 12 December 2017

REGISTRATION				
08.00	Coffee and registration <i>Atrium Lounge</i>			
OPENING AND INTRODUCTION				
09.00	Rob Boom (M2i Senior Scientific Advisor & Chairman of the day) Opening <i>Rotonde</i>			
09.05	Bert van Haastrecht (Materials innovation institute M2i) Introduction Meeting Materials <i>Rotonde</i>			
09.20	Marc Koper (Leiden University) Keynote Atomic-level aspects of anodic and cathodic dissolution of platinum electrodes <i>Rotonde</i>			
9.50	Stewart Williams (Cranfield University) Keynote Material properties and control in wire based additive manufacture <i>Rotonde</i>			
ELEVATOR PITCHES				
10.20	Elevator pitches <i>Rotonde</i>			
COFFEE BREAK				
10.50	Coffee break and networking <i>Atrium</i>			
THEME SESSIONS				
11.15	Track 1 Mechanical Behavior of Materials <i>Boston 9</i>	Track 2 Small scale Additive Manufacturing <i>Boston 13</i>	Track 3 Composites <i>Boston 17</i>	Track 4 Advanced characterization <i>Boston 19</i>
<i>Session chair</i>	<i>Jilt Sietsma (TU Delft)</i>	<i>Can Ayas (TU Delft)</i>	<i>Ton Peijs (Queen Mary University of London)</i>	<i>Erik Offerman (TU Delft)</i>
11.15	Stijn Hertelé (Ghent University) - Fatigue crack initiation and propagation in offshore steel structures	Nick Maassen (TU Eindhoven) - 3D-printed heat pipe array for fusion	Davide Nardi (TU Delft) - Effect of Manufacturing Defects for the automated production of fiber metal laminates (FML)	Hans Mulders (FEI) - Developments and trends in material characterization using TEM, SEM and FIB instrumentation
11.40	Nico Kamperman (DAF Trucks) - Thermal Mechanical Fatigue in heavy duty diesel engines	Hunor Erdélyi (Siemens Industry Software) - Relating AM process conditions to long-term dynamic performance of metallic AM parts	Frans Scholten (Kiwa Technology) - Chemical analysis and mechanical testing of failed composite pipes	Amarante Böttger (TU Delft) - In-situ materials research and 2D diffraction
12.05	Priyam Samantray (TU Eindhoven) - Multi-scale modelling of the irreversible behavior of paper fibres subjected to moisture cycles	Veronique Barthelemy (SIMULIA) - Additive Manufacturing process simulation at Dassault Systèmes	Mark Bouwman (TPRC) - Overmolding of thermoplastic composites	Alexander Neirinckx (University of Antwerp) - Advanced electron microscopy techniques for materials science
LUNCH				
12.30	Networking lunch and exhibition <i>Atrium</i>			
THEME SESSIONS				
13.45	Track 5 Damage in rail applications structures <i>Boston 9</i>	Track 6 Large scale Additive Manufacturing <i>Boston 13</i>	Track 7 Sustainable Concrete <i>Boston 17</i>	Track 8 Advanced characterization <i>Boston 19</i>
<i>Session chair</i>	<i>Rolf Dollevoet (Prorail /TU Delft)</i>	<i>Gert Willem Römer (University of Twente)</i>	<i>Klaas van Breugel (TU Delft)</i>	<i>Bart Kooi (University of Groningen)</i>
13.45-14.10	Ankit Kumar (TU Delft/FOM) - In-situ strain partitioning and damage in continuously cooled carbide free bainitic steels using micro digital image correlation	Marko Bosman (Fokker GKN) - The development of Additive manufacturing at a global Tier 1 aerospace supplier	Marija Nedeljkovic (TU Delft) - Carbonation of alkali-activated fly ash and slag materials	Stefan Zaefferer (MPIE) - Electron channelling contrast imaging (ECCI): direct observation of crystal lattice defects in bulk samples for in-situ deformation experiments
14.10-14.35	Ivan Shevtsov (ProRail) - Rolling Contact Fatigue problems at railway turnout: experience of ProRail	Vera Popovich (TU Delft) - 3D microstructural design by additive manufacturing: avenue to smart high temperature materials	Katrin Schollbach (TU Eindhoven) - Eco-concrete: methods to improve the environmental impact of concrete	Joachim Loos (DSM Materials Science Center) - Vision on Imaging
14.35-15.00	Martin Hiensch (TU Delft/DEKRA Rail) - Sustainable Railway Switches: structural performance of the switch panel	Hugo Romer (Huisman Equipment) - Wire & Arc Additive Manufacturing for Offshore Appliances	Steffen Grünewald (CRH/TU Delft/Ghent University) - Sustainable binders in different concrete binding systems in two SIM MaRes projects	Bram Schroyen (KU Leuven) - Quantitative characterisation of the dispersion quality based on mechanical contrast
COFFEE BREAK				
15.00	Coffee break and networking <i>Atrium</i>			
PLENARY FINAL SESSION				
15.30	Norman Fleck - Cambridge University Keynote Failure mechanisms in material systems <i>Rotonde</i>			
DRINKS & CLOSURE				
16.00	Drinks & closure <i>Atrium</i>			