

Program M2i Conference - 12 December 2016

REGISTRATION

08.30 Coffee & Registration
Room: Event Hall meeting point

OPENING AND INTRODUCTION

09.30 Rob Boom - Chair (M2i Senior Scientific Advisor)
State of the Institute
Room: Event Hall

09.45 Debashish Bhattacharjee - Tata Group
Keynote
Room: Event Hall

10.15 Marco de Baar - DIFFER
Keynote
Room: Event Hall

COFFEE BREAK

10.45 Coffee Break
Room: Event Hall meeting point

M2i TECHNOLOGY THEMES

	Track 1 Applied Mechanical behaviour at Multiple Scales Room: 8	Track 2 Functional Materials and Durable Surfaces Room: 9	Track 3 Composites and Additive Manufacturing and Welding Room: 10
Session chair	Ton van den Boogaard	Herman Terry	Ton Peijs
11.00 Eisso Atzema, Tata Steel	Getting to grips with edge ductility in Advanced High Strength Steel	Arnoud de Vooy, Tata Steel Making and using Cr3+ based coatings for packaging steel	Steffen Grunewald, TUD
11.20 Aydar Akchurin, M2i & UT	Wear model to predict the generation of particles from lubricated contacts contributing to the prediction of the	William Mao, M2i & TUD Selective Oxidation of Advanced High Strength Steels: Modelling and Experiment	Morteza Abouhamzeh, TUD Fusion Bonding in Thermoplastic-Thermoset Composite joints: Thermal degradations
11.40 Matthijs Oomen, UT	Wheel-rail friction modifiers to stabilize friction and reduce wear	Shoshan Abrahami, M2i & TUD Cr(VI)-free pretreatments for adhesive bonding of aerospace aluminium alloys	Chris Straub, M2i & TU/e Copper slag: How an inert material can be reactive
12.00 Break			
12.20 Kees Kuijpers, M2i & TU/e	Particle transport during capillary sorption of model inks in porous media	Leo de Jeer, RUG Microscopy study of plastic deformation recovery and air passivation in stainless steels - BESTSHAVING	Martino Marchetti, M2i & TUD New high temperature polymers for composite applications: bridging the thermoset divide
12.40 Priyam Samantray, TU/e	The level set method and X-FEM in predicting the hygroscopic swelling of fibrous network	Yueting Liu, M2i Understanding of the hydro-abrasive wear mechanism in the dredging industry	Ahmed Barakat, M2i & TU/e Moisture transport during first-drying of monolithic refractories: an NMR study

LUNCH

13.00 Lunch
Room: Event Hall meeting point

M2i HUMAN CAPITAL

14.00 Human Capital session for industry
Room: Event Hall

M2i TECHNOLOGY THEMES

	Track 4 Microstructure & materials behaviour Room: 8	Track 5 Functional Materials and Durable Surfaces Room: 9	Track 6 Composites and Additive Manufacturing and Welding Room: 10
Session chair	Jilt Sietsma	Maria Loi	Ian Richardson
14.30 Kees Bos, Tata Steel	Steel Strip Through Process Microstructure Evolution Modelling	Andre Ruybalid, M2i & TU/e In-situ identification of interface properties within 3D microelectronic devices	Marcel Hermans, TUD
14.50 Constantinos Goulas, M2i & TUD	Novel heat treatments for automotive spring steels: Microstructure and performance	Kuang-Sheng Chung, TU/e Reaction Wheel Technology Consolidation (ReWTeC)	Gautam Agarwal, TUD Solidification cracking of AHSS during welding
15.10 Pina Mecozzi, TUD	Bainite formation and properties in multiphase steels 2	Yasemin Tezsevin, TU/e Design and Demonstration of flexible functional surfaces deposited by roll-to-roll Atmospheric Plasma Chemical	Abdulkadir Akyel, M2i & TUD Fatigue strength of the repaired cracks in welded connections made of very high strength steels
15.30 Break			
15.50 Jesus Galan Lopez, M2i & TUD	Optimization of crystallographic texture for improved formability using Taylor based models	Shuyan Shao, RUG	Ondrej Nenadl, RUG Microstructural evolution in additive manufacturing with high power lasers
16.10 Xiaoxiao Li, Aachen	Bainite formation and properties in multiphase steels	Tom Savenije, TUD Metal Halide Perovskite solar cells	Kevin Maloney, Cambridge Micro-architected Adhesive Joints

DRINKS & POSTERS

16.30 Drinks & Poster Session
Room: Event Hall meeting point

PRE-DINNER, DINNER, AWARDS

18.00 Pre-Dinner Keynote: Ionica Smeets
Room: Event Hall

18.30 Dinner
Room: Event Hall meeting point

19.45 After Dinner Entertainment - Scientific Quiz hosted by Ionica Smeets
Room: Event Hall meeting point

20.30 Dessert
Room: Event Hall meeting point

21.00 Poster Prize & Award ceremony Scientific Quiz hosted by Ionica Smeets + closure drinks
Room: Event Hall meeting point

21.30 The end