Program Meeting Materials - Tuesday 10 December 2019

REGISTRATION

08.00 Coffee and registration

Atrium Lounge

OPENING AND INTRODUCTION

09.00 Rob Boom (M2i Senior Scientific Advisor & Chairman of the day)

Rotonde

09.05 Bert van Haastrecht (M2i)

Introduction Meeting Materials

Rotonde

09.20 Amar Mavinkurve (NXP)

Keynote Material interactions in microelectronics packaging

Rotonde

9.50 Amir Zadpoor (TU Delft)

Keynote Meta-biomaterials

Rotonde

ELEVATOR PITCHES

10.20 Elevator pitches (20 x 90 sec)

COFFEE BREAK

10.50 Coffee break, networking and exhibition

Atrium

THEME SESSIONS								
	Track 1	Track 2	Track 3 - 4TU.HTM	Track 4				
	Special Steels	Integrated Systems, Digital Future	Education in Materials Science	3DMed: Medical Materials & 3D Printing -				
				Session 1				
	Rotonde	Boston 11	Boston 9	Boston 13				
Session chair	Maria Santofimia (TU Delft)	Jurriaan Schmitz (UT)	Laurens Katgerman (TU Delft)	Amir Zadpoor (TU Delft)				
11.15	Piet Kok (Tata Steel) - Microstructure design	Sriharsha Nistala (Tata Consultancy Services) -	Antonis Vakis (RU Groningen) - Mechanical	Eva Hofland (Oceanz) - Additive Manufacturing				
	for the multiscale simulation of advanced steel	Digital Twins for Online Process Simulation and	and Materials Engineering at the University of	of Polymers for Medical Applications				
	grades	Optimization	Groningen					
11.40	Xukai Zhang (RUG) - Microstructure,	Caiyang Wei (TU/e) - Integrated Energy and	Marcel Sluiter (TU Delft) - Modern	Chris Arts (Maastricht UMC) - Novel 3D printed				
	precipitate and property evolution in cold	Thermal Management of Electrified	Computational Tools in the Materials Science	Ti cage design and methods to boost spinal				
	rolled Ti-V high strength low alloy steel	Powertrains - A Material Perspective	Curriculum	fusion				
12.05	Muhammad Niazi (UT) - Strain gradient	Bojana Rosic (UT) - Smart assessment of	Ton Bor (UT) - How to create nucleation and	Victor de la Rosa (Avroxa) - Poly(2-oxazoline)s				
	enhanced crystal plasticity model: Application	concrete structures by seamless integration of	growth in student learning of materials science	as versatile biomaterials				
	to electric steels	data and models						

LUNCH

12.30 Networking lunch and exhibition

Atrium

THEME SESSIONS								
	Track 5 Sustainability & Circular Economy Boston 15	Track 6 Joining Technology Boston 11	Track 7 - 4TU.HTM Education in Materials Science Boston 9	Track 8 3DMed: Medical Materials & 3D Printing - Session 2 Boston 13	Track 9 MustMef: Multiscale Simulation Techniques for Metal Forming Rotonde			
14.00	Jos Brouwers (TU/e) Benjamin Sprecher (Leiden University) - Resilience in the supply chains of critical	Amin Ebrahimi (TU Delft) - A new simulation- based approach to welding process			Leo Kestens (Ghent University) - Modelling textures and r-values of metal sheets for deep			
14.20	Chrysoula Ioannidou (TU Delft) - Phase transformation and precipitation kinetics in Vanadium micro-alloyed steels	Gautam Agarwal (TU Delft) - Safe alloying limits and process conditions to prevent hot cracking during laser welding of automotive	Johan Bijleveld (TU Delft) - Challenging	Mohammad Ahmadi (Amber Implants) - 3D printed customized spinal implants	Franz Roters (Max-Planck Institute) - Calibrating yield surface models based on full field crystal plasticity simulations			
	Guchan Yapar (Tata Steel) - Reconnecting the values of carbon and steel in the carbon lean prospect	steel grades Romina Lopes Fernandes (TU Delft) - Characterisation of crack growth in bi-material bonded joints with thick bondlines			Tuan Nguyen Minh (CRM Ghent) - Reconstruction of Austenite Microstructures in Steels by Optimisation of Misorientation			
	Sijmon van der Wal (Composite Analytica) - Reliable Composite Service Life Predictions for Harsh Environments	Florent Gauvin (TU/e) - Durability study of glues for exterior panel bonding	Masoumeh Faraji (Coventry University) - Manufacturing Technology and Materials for Engineers: Inquiry- Based Learning and Application Driven Teaching		Functions Jesus Galan Lopez (TU Delft) - Modelling of Metal Microstructures by the Grain Size Orientation Distribution Function			

COFFEE BREAK

15.20 Coffee break, networking and exhibition

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PLENARY FINAL SESSION 15.50 Beatriz Noheda (RUG)

Keynote Ferroelectric materials: from actuators to neuromorphic devices

Rotonde

16.20 Bert van Haastrecht (M2i)

Closure Rotonde

DRINKS & CLOSURE

16.30 Drinks

Atrium