Program Meeting Materials 2015: Materials of the Future

TUESDAY 8 DECEMBER 2015 – CONFERENCE HOTEL DE RUWENBERG

Registration

08:30-09:30	Registration + Coffee	Desk D-Lounge
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Plenary session

09.30-09:40	Rob Boom Chair (M2i Senior Scientific Advisor) - Welcome	Atrium
09.40-10.05 Keynote	Paul Blom (Max Planck, Mainz) - Charge and energy transport in conjugated polymers	Atrium
10.05-10.30 Keynote	Wim van der Meer (Tata Steel) - Revision of the High Tech Materials Roadmap	Atrium

10.30-11.00	Coffee break	D-Lounge & A-Lounge
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Theme Materials of the Future (along lines new materials roadmap)

Presentations at various TRL levels to show new horizons, new developments and new (ready to use) materials in all four areas. Presentations by M2i researchers and supervisors, FOM materials working group, 3TU. HTM postdoc program, industrial partners and other industry, members of Bond van Materialen Kennis and Brightland Materials Center.

11:00-12:30	Next Generation Engineering Materials / metals 1	Additive manufacturing	Materials for Sustainable Energy 1	Composites 1
	Room: D2	Room: D678	Room: A3	Room: A2
Chair	Marc Geers, TU/e	Fred van Keulen, TUD	Fokko Mulder, TUD	Ton Peijs, QMUL
	Roumen Petrov, Ugent	Steffen Grünewald, CRH	Marc Koper, ULeiden	Wim Van Paepegem, UGent
11.00-11.30	Microstructure and texture of advanced high strength steels after ultrafast annealing	3D printing in Concrete	Electrocatalysis for fuel production: a tale of electron, protons, and volcanoes.	Structural composites in industrial applications: future solutions for today's engineering challenges in design and simulation
11.30-11.50	Dr. Yuri Kadin, SKF Modeling of crack propagation in rolling contact fatigue.	Emiel van de Ven, NLR Topology optimization for additive manufacturing with process constraints (TopAM)	Jean Marc de Wilde, Elsyca Predictive modeling in surface finishing and corrosion processes	Marnix van Gurp, BMC Brightlands Materials Center: a new R&D center in the field of polymeric materials

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	Jan Harmen Wiebenga, TriboForm Engineering	Tessa ten Cate, TNO/BMC	Amarante Bottger, TUD	Emanuela Bosco, TU/e
11.50-12.10	Simulation of tribology, friction and lubrication in sheet metal forming processes.	Innovations in polymer additive manufacturing	Materials for a Hydrogen Economy	A multiscale experimental- numerical study of the influence of humidity on the mechanics of paper
	Verdiere, An (UGent)	Jaco Saurwalt, ECN	Jacques Dam, TU/e	Hans Muller, Solico
12.10-12.30	High Cycle Fatigue in Continuously Variable Transmission push belts		LNG toepassingen	

Lunch

12.30-13.30	Lunch	Restaurant
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13.30-15.00	Next Generation Engineering Materials / metals 2	Functional materials	Materials for Sustainable Energy 2	Composites 2
	Room: D2	Room: D678	Room: A3	Room: A2
Chair	Leo Kestens, UGent	Herman Terryn, VUB	Frans Vos, KUL	Aart Willem van Vuure, KUL
	Xiaolong Zhang, Endures	Maurice Mourad, BMC/TNO	Axel Schonecker, RGS	Warden Schijve, Sabic
13.30-14.00	Maritime & corrosion	Nanocomposite materials for optical coatings	Novel Materials for cost efficient, thermoelectric conversion of industrial waste heat.	New thermoplastic composite solutions to make automotive lightweighting a reality
	Maloney, Kevin, M2i	Yves van Ingelgem, Zensor		Chris de Ruijter, Promolding
14.00-14.20	Dynamic performance of adhesive joints	Smart sensoring for timely maintenance	To be confirmed	Creating Polymer Solutions using functional thermoplastic materials

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	Emiel Amsterdam, NLR	Rodrigo Montoya, VUB	Pim Donkers, TU/e	Johan Paul, FLAMAC
14.20-14.40	Fatigue performance	Impact of Self-Healing Engineered materials on steel Corrosion in reinforced Concrete (Modelling the transport of corrosive agents in concrete)	Salt hydrates studied for thermochemical heat storage.	High Throughput
	Joachim Antonissen, OCAS/MaDurOS	Niels de Greef, REIN4CED	Rogier Nijssen, WMC	Guy van Assche, VUB
14.40-15.00	Material Durability under Combined Severe Operating Conditions	3D-printing of composites: stronger and lighter than aluminum!	Developments in testing for wind energy materials and structures	Self-healing polymers and their performance

15.00-15.30	Drinks & Snacks	De Ronding
15.30-16.15 Key note	René Janssen (TUE) Spinoza prize winner 2015 - Light & Materials	Atrium
16.15	Closure & Drinks	Atrium & De Ronding