

Programme

Dutch Materials 2018

Utrecht (Jaarbeurs, Beatrix building), 12 October 2018

4TU.High-Tech Materials

Keynote lectures by

Prof. Nicola Marzari

École Polytechnique Fédérale de Lausanne (EPFL)

Prof. Annika Borgenstam

KTH Royal Institute of Technology, Stockholm

Prof.dr. Kurt Kremer

Max Planck Institute for Polymer Research



UNIVERSITY OF TWENTE.



4TU.

10.00	Welcome (coffee and registration) (Setting up) Poster exhibition
	ROOM 117
10.15 - 10.30	<i>Welcome</i> Prof.dr.ir. Jilt Sietsma (scientific director 4TU.HTM) Materials Science and Engineering, 3mE, Delft University of Technology
10.30 - 11.15	<i>Chair: Jilt Sietsma</i> Prof. Nicola Marzari École Polytechnique Fédérale de Lausanne (EPFL) <i>Discovering novel materials: the convergence of high-performance computing, high-throughput computing, and data analytics</i>
11.15 - 11.30	Haixing Fang M.Sc. (Novel Aerospace Materials, TU Delft) <i>Direct view of self-healing in creep alloys</i>
11.30 - 11.45	Coffee break
11.45 - 12.30	<i>Chair: Sybrand van der Zwaag</i> Prof. Annika Borgenstam KTH Royal Institute of Technology, Stockholm <i>On the development of theoretical and experimental tools for materials design of high strength steels and cemented carbides</i>
12.30 - 12.45	Dr. Carola Celada-Casero (MSE, 3mE, TU Delft) <i>Understanding microstructural changes for the design of advanced steels</i>
12.45 - 13.30	Lunch - and poster session
13.30 - 15.00	<i>Chair: Remko Akkerman</i> <u>New Horizons in Designer Materials</u> Amir Mirza Gheytaghi (TU Delft) - Super Conducting Nanotubes Matthew Hendriks (TU/e) - Communicating Surfaces Mohammad Moradi (TU/e) - Structure Formation Maciek Kopeć (UTwente) - Towards Advanced, 3D Materials Bottom-Up, from Polymer Decorated Nano- and Microstructures
15.00 - 15.30	Break - and poster session
15.30 - 15.45	<i>Chair: Joris Sprakel</i> Dr. Sissi de Beer (Materials Science and Technology of Polymers, UTwente) <i>Wetting of polymer brushes by polymeric nanodroplets</i>
15.45 - 16.00	Dr. Ruben Higler (Physical Chemistry and Soft Matter, WUR) <i>Anomalous dynamics and phase behaviour of dopants in weak crystals</i>
16.00 - 16.45	Prof.dr. Kurt Kremer Max Planck Institute for Polymer Research <i>Multiscale Modeling and Design of Smart Polymers</i>
16.45 - 18.00	Closure & Drinks