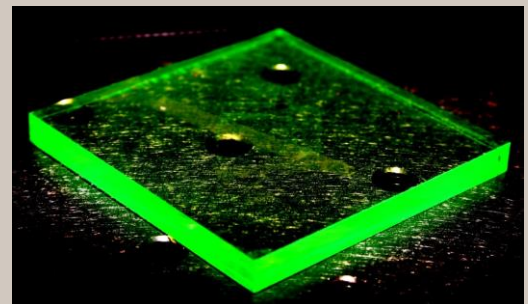


First 3TU.HTM Symposium “Dutch Materials”

Utrecht, October 6, 2015



UNIVERSITEIT TWENTE.



Programme *Dutch Materials 2015*

- 11.00 h *3TU.HTM, a new initiative for fundamental and technological materials research and education, Jilt Sietsma, scientific director 3TU.HTM*
- 11.20 h *Understanding structure formation in hierarchical hybrid materials through in situ liquid phase microscopies, Nico Sommerdijk (TU/e)*
- 11.50 h *“From Flatland to Spaceland“: towards advanced, 3-dimensional materials bottom-up, from polymer decorated nano- and microstructures, Julius Vancso (UT) & Bert de With (TU/e)*
- 12.20 h Lunch

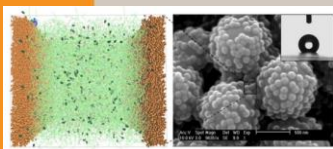
- 12.20 h Lunch
- 13.20 h **Key note lecture:** *Mechanisms of toughening of soft polymeric materials: some recent advances*, Costantino Creton (ESPCI ParisTech)
- 14.00 h *Reversible crosslinking: a potent paradigm for designer materials*, Kees Storm & Wouter Ellenbroek (TU/e)
- 14.30 h *Metamaterials with tunable dynamical properties*, Varvara Kouznetsova & Marc Geers (TU/e)
- 15.00 h Break (coffee, tea, refreshments)
- 15.30 h *Superconducting carbon nanotubes composite as vertical interconnect for qubit integration at cryogenic temperature*, Ryoichi Ishihara & Kouchi Zhang, René Poelma (TU Delft)
- 16.00 h *Communicating surfaces*, Danqing Liu (TU/e)
- 16.30 h Drinks

3TU.HTM, a new initiative for fundamental and technological materials research and education

One of nine Research Centres of the 3TU.Federation

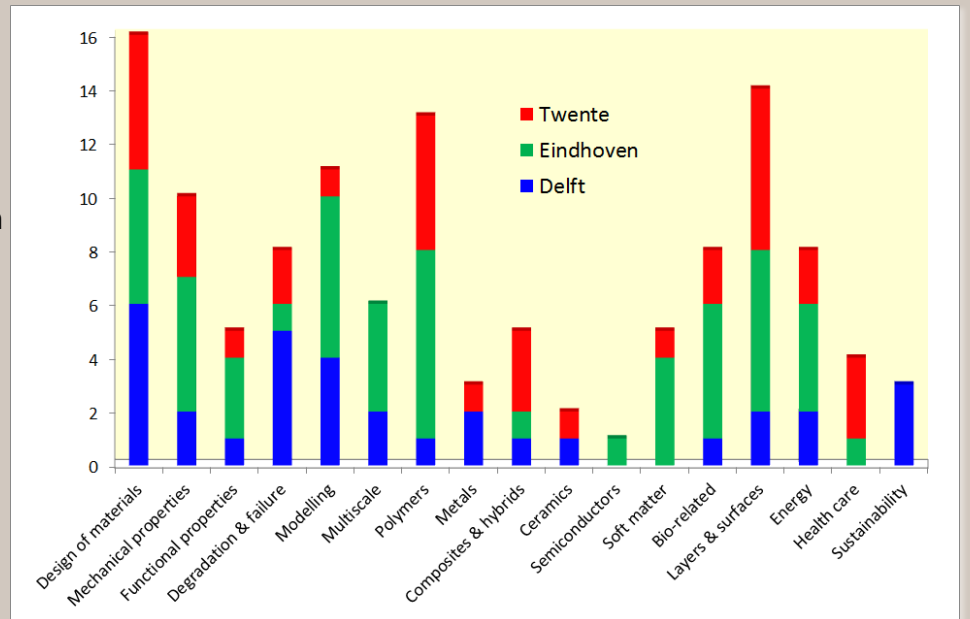
Main aims:

- Strengthen collaboration between the three TU's
- Strengthen the research field Materials Science and Engineering
- Attract new talent to Materials Science and Engineering



Keywords

51 reactions:
 15 from Delft
 19 from Eindhoven
 17 from Twente



Organisation 3TU.HTM

3TU.Research

three rectors

Board 3TU.HTM

Theun Baller (TUD), Philip de Goey (TU/e),
 Jeroen Cornelissen (UT)



Reina Boerrigter

Scientific Director

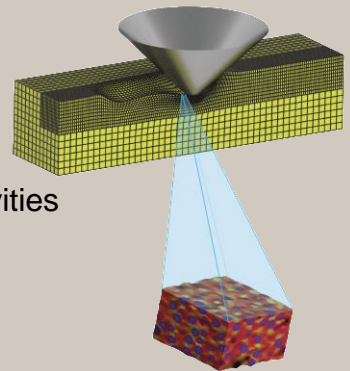
Jilt Sietsma (TUD)

Management Team

Julius Vancso, Remko Akkerman (UT),
 Marc Geers, Rint Sijbesma (TU/e),
 Sybrand van der Zwaag, Jilt Sietsma (TUD)

Finances & time scale

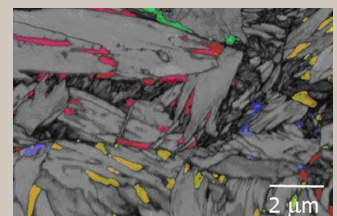
- k€ 150 per year coordination: organisation and activities
k€ 500 per year research programme
- Assigned for 4 years 2014 – 2017
- Officially confirmed November 10, 2014
- Decision on continuation in 2017



Collaboration!

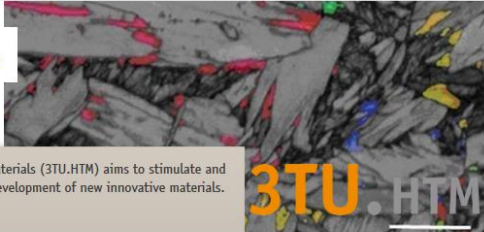
Activities 3TU.High-Tech Materials


- Research programme *New horizons for designer materials*
- Yearly symposium *Dutch Materials*
- Improve accessibility Materials Science and Engineering
- Website <http://www.3TU.nl/HTM>
- Stimulate Summer Schools and Graduate Courses
- Support mutual availability of equipment
- Finance [small] collaborative projects
- Develop activities to attract students



3TU.Federatie [Home](#) [Research](#) [News](#) [Events](#) [Organisation](#)


High-Tech Materials

 3TU.HTM

 The 3TU Research Centre High-Tech Materials (3TU.HTM) aims to stimulate and intensify the academic research and development of new innovative materials.

Latest updates

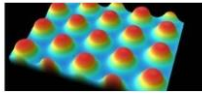
3TU.HTM Kick-off Conference 'New Horizons' - 6 October 2015



3TU.HTM Kick-off Symposium 'Dutch Materials'

On the programme of this kick-off symposium are the goals of the 3TU Research Centre High-Tech Materials and the...

Tuesday 6 October 2015



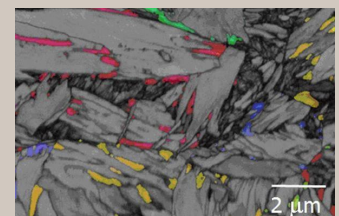
3TU.HTM opens new horizons in designer materials

The 3TU Research Centre High-Tech Materials, a concerted effort by the three Dutch universities of technology (Delft,...

Tuesday 25 August 2015

Activities 3TU.High-Tech Materials

- Research programme *New horizons for designer materials*
- Yearly symposium *Dutch Materials*
- Improve accessibility Materials Science and Engineering
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Invitation for academics to start activities

- Attract new talents
- Provide information on the website
- Organise Summer Schools and Graduate Courses
- Enable mutual availability of equipment
- Initiate [small] collaborative projects
- Improve accessibility Materials Science and Engineering
- Develop activities to attract students

Collaboration!

Research programme

New horizons in designer materials

This call is organised by the 3TU Research Centre High-Tech Materials and invites tenured researchers from the three Universities of Technology in the Netherlands to propose research projects that can be expected to lead to recognisably new research lines in materials science and engineering at our universities. The projects should lead to cutting-edge fundamental research, to be performed by (tenure-track potential) postdocs in close collaboration with an internationally renowned expert in the field. The total budget for this call is ME2.

Call in December 2014

- conceptual and fundamental
- highly innovative
- excellent postdoctoral researcher
- significant contribution by an international expert
- fitting in the long-term strategy of host department

Six projects granted in July 2015

Research programme 2016-2018

- Nico Sommerdijk (TU/e): *Understanding structure formation in hierarchical hybrid materials through in situ liquid phase microscopies*
- Julius Vancso, Bert de With (UT, TU/e): *“From Flatland to Spaceland“: towards advanced, 3-dimensional materials bottom-up, from polymer decorated nano- and microstructures*
- Kees Storm, Wouter Ellenbroek (TU/e): *Reversible crosslinking: a potent paradigm for designer materials*

Research programme 2016-2018

- Varvara Kouznetsova, Marc Geers (TU/e): *Metamaterials with tunable dynamical properties*
- Ryoichi Ishihara, Kouchi Zhang (TU Delft): *Superconducting carbon nanotubes composite as vertical interconnect for qubit integration at cryogenic temperature*
- Danqing Liu (TU/e): *Communicating surfaces*