

## *Programme*

### **Dutch Materials 2017**

*Utrecht, 13 October 2017*

**4TU**.High-Tech Materials

### *Materials for Energy & Composite Materials*

Keynote lectures by

**Prof.dr. Wim Sinke**

ECN Solar Energy/ University of Amsterdam / AMOLF

**Dr. Andrea Baldi**

DIFFER

**Dr.ir. Behnam Taebi**

Delft University of Technology

**Prof.dr.ir. Leon Govaert**

Eindhoven University of Technology and University of Twente

**Prof.dr.ir. Remko Akkerman**

University of Twente



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**4TU.**

10.15	Welcome (coffee and registration) (Setting up) Poster exhibition
10.30 - 10.45	<p><b>ROOM 117</b> (plenary)</p> <p><i>Opening &amp; Presentation of the new 4TU.HTM website: 4TU.Materials Scientists search tool</i>  <b>Prof.dr.ir. Jilt Sietsma</b> (scientific director 4TU.HTM)  Materials Science and Engineering, 3mE, Delft University of Technology</p>
10.45 - 11.15	<p><i>Morning session (Room 117): <b>Materials for Energy</b></i>  Chair: Jilt Sietsma</p> <p><i>Materials challenges for terawatt-scale photovoltaics</i>  <b>Prof.dr. Wim Sinke</b>  ECN Solar Energy / UvA / AMOLF</p>
11.15 - 11.45	<p><i>Nanomaterials for energy applications: a single particle approach</i>  <b>Dr. Andrea Baldi</b>  DIFFER (Dutch Institute for Fundamental Energy Research)</p>
11.45 - 12.00	Coffee Break
12.00 - 12.15	<p><i>Photochromism in rare earth metal-oxy-hydrides</i>  <b>Fahimeh Nafezarefi M.Sc.</b>  Delft University of Technology</p>
12.15 - 12.30	<p><i>BaSi<sub>2</sub>: An earth-abundant absorber material for thin-film solar cell applications</i>  <b>Yilei Tian M.Sc.</b>  Delft University of Technology</p>
12.30 - 13.00	<p><i>Good Governance of Climate and Energy Risks</i>  <b>Dr.ir. Behnam Taebi</b>  Delft University of Technology</p>
13.00 - 13.30	Lunch – and time to view posters (in <b>ROOM 116</b> )
13.30 - 14.00	<p><i>'New Horizons in Designer Materials' &amp; 4TU posters within Materials Science</i>  <b>Poster Presentation Session (Room 117)</b>  Chair: Julius Vancso</p>
14.00 - 14.30	Poster session – time to view and discuss posters (Room 116)

	<p><u>Afternoon session (Room 117): <b>Composite Materials</b></u></p> <p style="text-align: right;">Chair: Marc Geers</p>
14.30 - 15.00	<p><i>Flying bits and their fundamentals - Basic research on composite materials and processing</i></p> <p><b>Prof.dr.ir. Remko Akkerman</b> University of Twente</p>
15:00 - 15:30	Break
15.30 – 15.45	<p><i>Experimental and numerical investigation of hygrothermal aging in wind turbine blade composites</i></p> <p><b>Ir. Iuri Rocha</b> Delft University of Technology / WMC</p>
15.45 – 16.00	<p><i>Manufacturing rate vs performance: How fast can we go?</i></p> <p><b>Dr. Francisco Sacchetti</b> University of Twente / TPRC</p>
16.00 - 16.30	<p><i>Matrix-dominated failure in thermoplastic composites</i></p> <p><b>Prof.dr.ir. Leon Govaert</b> Eindhoven University of Technology / University of Twente</p>
16.30 - 18.00	Drinks and times to view posters ( <b>ROOM 116</b> )