

# UNIVERSITEIT TWENTE.

Agenda Workshop: **Hybrid Energy Systems- Thermal and Light conversion**

Date: **16<sup>th</sup> of January 2019** Location: **CR 3E**

**9:30-9:50 – Welcome/coffee**

**9:50 -10:00 – Opening by Prof. Dr. Brem**

**Session 1: Materials and thermal routing**

10:00-10:20 - Prof. Dr. Huijben (TNW)- “Advanced materials for thermoelectric energy generators”

10:20-10:40 – Dr. Muñoz Rojo (ET) –“Thermal devices for thermal management and energy harvesting applications”

10:40-11:00 – Prof. Dr. Elshof & Dr. Huijser (TNW)- “Towards stable hybrid metal-halide perovskites with controlled photophysical properties for PV”

**11:00 -11:30 - COFFEE BREAK**

**Session 2: Thermal and light conversion**

11:30-11:50 – Prof. Dr. Tas (TNW)- “3D micro/nanostructures for solar to fuel and PV energy conversion”

11:50-12:10- Prof. Dr. Mul (TNW)- “Latest developments in photo- and electro-catalytic conversion of CO<sub>2</sub>”

12:10-12:30 - Dr. Morales (TNW)- “Transparent contacts for efficient solar cells”

**12:30-13:30 – LUNCH**

**Session 3: Thermal and chemical conversion**

13:30-13:50- Prof. Dr. Brem (ET) – “PCM heat storage and Solar Heat”

13:50-14:10 – Dr. Faria (TNW)- “Organic-Inorganic Nano-hybrid Catalysts for Biomass Conversion in Water-Oil Emulsions ”

14:10-14:30 – Dr. den Otter (ET) - “Dynamics of aggregates in semi-solid flow batteries”

**14:30-15:00- COFFEE BREAK**

**Session 4: Nano- & Micro-inorganic and organic structures**

15:00-15:20 –Prof. Schmitz (TNW)- “Polysilicon contacts for photovoltaic cells”

15:20-15:40- Dr. Kudernac (TNW)- “From inefficient energy conversion to molecular complexity”

15:40-16:00 - Dr. Visser (ET)- “Fluid Mechanics for Functional Materials”

**16:00-16:05 - Closure by Dr. Muñoz Rojo**

**16:05- 17:00 - Drinks**

