

Program Yearly Symposium on Superconductivity & Cryogenics

Organized by:

- Chair Energy, Materials and Systems -
- Chair Industrial Applications of Superconductivity -
- with support of Foundation SuperACT

Thursday 2 December 2021, University of Twente, Building 45 'U-Parkhotel' on the campus map, room C1&2

09:30 – Welcome with Coffee, Tea and Cakes

1. 10:00 – Sc Magnet for Magnetic Density Separation, *Goncalo Santos Tomas / Uni. of Twente (15+5m)*
2. 10:20 – Vibration free cooling in Big Science projects like ET & LGWA, *Marcel ter Brake / Uni. of Twente (15+5m)*
3. 10:40 – Pitches on Cryogenics & Vibration Free Cooling in 3 x 7 minutes!
 - 10:40 Sorption-based cryo chain for Einstein Telescope Pathfinder, *Arvi Xhahi / Uni. of Twente (5+2m)*
 - 10:47 Vibration-free set-up for ET mirror coating development, *Koen Lotze / Uni. of Twente (5+2m)*
 - 11:54 Applications of gas mixtures on sorption-based coolers, *Nando Tolboom / Uni. of Twente (5+2m)*

11:01 – Coffee & Tea break (29m)

4. 11:30 – Towards Industrial Application of Superconducting Actuators, *Matthijs Neut / VDL-ETG (15+5)*
5. 11:50 – AC Loss in ReBCO racetrack coils for sc linear motors, *Jeroen ter Harmsel / Uni. of Twente (15+5m)*
6. 12:10 – ReBCO magnets for Compact Fusion at Tokamak Energy, *Bas van Nugteren / Tokamak Energy (15+5m)*

12:25 – Lunch (70m)

7. 13:40 – Advances in Twente Cryogenic Boiling research, *Srini Vanapalli / Uni. Of Twente (15+5m)*
8. 14:00 – Pitches on Applied Thermal Science projects in 4 x 7 minutes!
 - 14:00 Liquid nitrogen droplets dynamics on a water pool, *Markus Schremb / Uni. of Twente (5+2m)*
 - 14:07 Leidenfrost dynamics, *Abhishek Purandare / Uni. of Twente (5+2m)*
 - 14:14 Cryogenic liquids in porous materials, *Rick Spijkers / Uni. of Twente (5+2m)*
 - 14:21 Direct contact freeze concentration, *Zhuo Zhang/ Uni. of Twente (5+2)*
9. 14:30 – HFML 45T hybrid status and EMFL ReBCO coil R&D, *Andries den Ouden / HFML-Radboud Uni. (15+5)*

14:50 – Coffee & Tea break (30m)

10. 15:20 – Advanced diagnostics of the performance of Nb₃Sn accelerator magnets, *Ruben Keijzer / CERN (15+5m)*
11. 15:40 – BOX, a new benchmark facility for study of magnet training, *Simon Otten / Uni. of Twente (15+5m)*
12. 16:00 – Superconducting Detector Magnet Development at CERN, *Matthias Mentink / CERN (15+5m)*
13. 16:20 – SuperACT Service Center and its projects, *Arend Nijhuis / Uni. of Twente (8+2m)*

16:30 – Discussion while enjoying Drinks & Bites

17:30 – Closing & Departure - Tour of the laboratory for those interested.