

Program Yearly Symposium on Superconductivity & Cryogenics

Organized by:

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

Thursday 10 November 2022, University of Twente, Building 45 'U-Parkhotel' on the campus map, room C1+2.

09:15 – Welcome with Coffee, Tea and Cakes

09:40 – Opening address

1. 09:45 – ReBCO magnets for Compact Fusion at Tokamak Energy, *Bas van Nugteren / Tokamak Energy (13+2m)*
2. 10:00 – AC/DC distribution for the ASCEND Demonstrator at Airbus, *Emelie Nilsson / Airbus Toulouse (15+5)*
3. 10:20 – AC Loss in ReBCO CORC cables for Airbus e-airplane project, *Marc Dhalle / Uni. Twente (15+5m)*
4. 10:40 – Small Scale Hydrogen Liquefier developments, *Hendrie Derking / Cryoworld (15+5m)*

11:00 – Coffee & Tea break (30 m)

5. 11:30 – Magnetic Density Separation Magnet: integration & 1st field test, *Sander Wessel / Uni. Twente (15+5m)*
6. 11:50 – Industrial outlook on MDS and next steps, *Jaap VandeHoek I / Umincorp (8+2m)*
7. 12:00 – Industrial outlook on MDS and next steps, *Martijn van de Poll / Reukema (8+2m)*
8. 12:10 – Challenges in realizing the Einstein Telescope and its Pathfinder, *Stan Bentvelsen / NIKHEF (15+5m)*

12:30 – Lunch (70 m)

9. 13:40 – ReBCO coil technology for linear motors and actuators, *Marc Dhalle / Uni. Twente (15+5)*
- 14:00 – Applied Thermal Science projects in 3 pitches of 3 x 10 minutes!
10. 14:00 - Overview of Applied Thermal Science projects, *Srini Vanapalli / Uni. Twente (7+3m)*
11. 14:10 - Extended Phase Diagram, *Abhishek Purandare / Uni. Twente (7+3m)*
12. 14:20 - Cryosponge, *Rick Spijkers / Uni. Twente (7+3m)*
13. 14:30 – Superconductors and magnet requirements for a Muon Collider, *Luca Bottura / CERN (15+5m)*

14:50 – Coffee & Tea break (30 m)

14. 15:20 – BOX, facility for study of training in Nb₃Sn Rutherford cables, *Anna Kario / Uni. Twente (15+5m)*
15. 15:40 – Diagnostics of performance of Nb₃Sn accelerator magnets at CERN, *Ruben Keijzer / CERN (15+5m)*
16. 16:00 – 50 years of superconductivity in Twente, *Herman ten Kate / Uni. Twente (25+5m)*

16:30 – Discussion while enjoying Drinks & Bites

17:15 – Closing & Departure

17:15 – Tour of the laboratory for those interested.