

Program Yearly Symposium on Superconductivity & Cryogenics

Organized by:

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

Thursday 16 November 2023, University of Twente, Building 45, 'U-Parkhotel' on the campus map, room C1+2.

09:00 – Welcome with Coffee, Tea & Cakes

09:25 – Opening address (5 m)

1. 09:30 – Introduction of Hans van Oort in High-Current Superconductivity, *Hans van Oort / Uni. Twente (8+2m)*
2. 09:40 – Introduction of Michiel van Limbeek in Advanced Cryogenic Technology, *Michiel van Limbeek / UT (8+2m)*
3. 09:50 – Cryogenic cooling in vibration-sensitive applications, *Pieter Lerou / Demcon Kryoz (15+5m)*
4. 10:10 – The Dutch role in the detection of Gravitational Waves, *Marcel ter Brake / Uni. Twente (15+5m)*
5. 10:30 – Cryogenics for Einstein Telescope Pathfinder, *Michiel van Limbeek / Uni. Twente (15+5m)*

10:50 – 11:10 Coffee & Tea break (20 m)

6. 11:10 – 1st year experience with Magnetic Density Separation Magnet, *Goncalo Tomas / Uni. Twente (15+5m)*
7. 11:30 – Epitaxial growth of superc. $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films using nanosheet templates, *Jelle Ruiters / Uni. Twente (15+5m)*
8. 11:50 – Superconducting Miniature Actuators, *Wouter Verbruggen / Uni. Twente (15+5m)*
9. 12:10 – Room temperature Superconductors, ever or never?, *Hans Hilgenkamp / Uni. Twente (15+5m)*

12:30 – 13:40 Lunch (70 m)

10. 13:40 – Research in Applied Thermal Science, *Srini Vanapalli / Uni. Twente (15+5m)*
11. 14:00 – Development at NLR of LH2 technology for aircraft, *Roel van Benthem / NLR (15+5m)*
12. 14:20 – Superconducting DC cables in aircraft to achieve zero-emission flight, *Jan-Willem Arink / Fokker (15+5m)*
13. 14:40 – Coil Design with RAT, A Magneto-Statics Code, *Jeroen van Nugteren / Little Beast Engineering (15+5m)*

15:00 – 15:30 Coffee & Tea break (30 m)

14. 15:30 – Superconductors for Fusion magnets, *Klaus Schlenga / Bruker Energy & Supercon Technologies (15+5m)*
15. 15:50 – ReBCO CORC®-like 20 T class CIC Conductors for Fusion, *Giulio Anniballi / Uni. Twente (15+5m)*
16. 16:10 – High Field Magnet development at CERN, *Diego Perini / CERN (15+5m)*

16:30 – Discussion while enjoying Drinks & Bites

17:15 – Closing & Departure

17:15 – Guided tour of the laboratories for those interested.