

Dear Sir/Madam,

We kindly invite you to a one-day symposium on Thursday December 10 organized by the research chair Energy, Materials and Systems (EMS) and the special chair Industrial Applications of Superconductivity (ITS) at the University of Twente.

Our research projects on superconductivity and cryogenics that we perform in cooperation with companies and research institutes are presented. The program also includes a report on the achievements of the special research chair ITS and on the developments concerning the foundation SuperACT.

The meeting will be in the Audiozaal of center De Vrijhof at the University, indicated as building nr 47 at the campus map below.

The program of the day is as follows:

- 10:00 – Superconducting generator in a 3.6 MW wind turbine (EcoSwing project) – *Carsten Bührer / ECO5*
- 10:25 – Magnetic density separation (new project initiative) – *Peter Rem / TU Delft*
- 10:50 – A 4 km sc power transmission cable in the Netherlands (Supernet NL project) – *Rob Ross / TenneT*
- 11:15 – Coffee
- 11:30 – MEMS machined cryogenic coolers (Micro-cooling project) – *Marcel ter Brake / Uni Twente*
- 11:50 – Cryo-preservation of biopsies (newly starting Cryo-On STW project) – *Srinivas Vanapalli / Uni Twente*
- 12:10 – Sorption-based cooling for space and big science (ESA, ELT projects) – *Marcel ter Brake / Uni Twente*
- 12:30 – Lunch
- 13:40 – Advanced Nb<sub>3</sub>Sn and ReBCO superconductors – *Klaus Schlenga / Bruker EAS*
- 14:05 – Magnets for next particle accelerators (HiLumi LHC and FCC) – *Herman ten Kate / CERN*
- 14:25 – Superconductors for magnets in fusion reactors (ITER, DEMO & more) – *Arend Nijhuis / Uni Twente*
- 14:45 – Coffee
- 15:00 – Research Chair ITS – *Herman ten Kate / Uni Twente*
- 15:40 – Foundation SuperACT – *Marcel ter Brake / Uni Twente*
- 16:00 – Closing event with drinks and bites
- 17:30 – Departure

During the day you will be updated on recent developments in the field of superconductivity and cryogenics. It will also allow you to meet our partners in research and development. We highly value your comments on our research program, objectives and planning.

We would like to welcome you at this one-day symposium and hope you are able to accept the invitation. Further details on program and access will be send to those who confirmed their attendance in due time. Attendance is by invitation only. We would appreciate receiving your quick reply.

Please inform our secretariat concerning your presence:

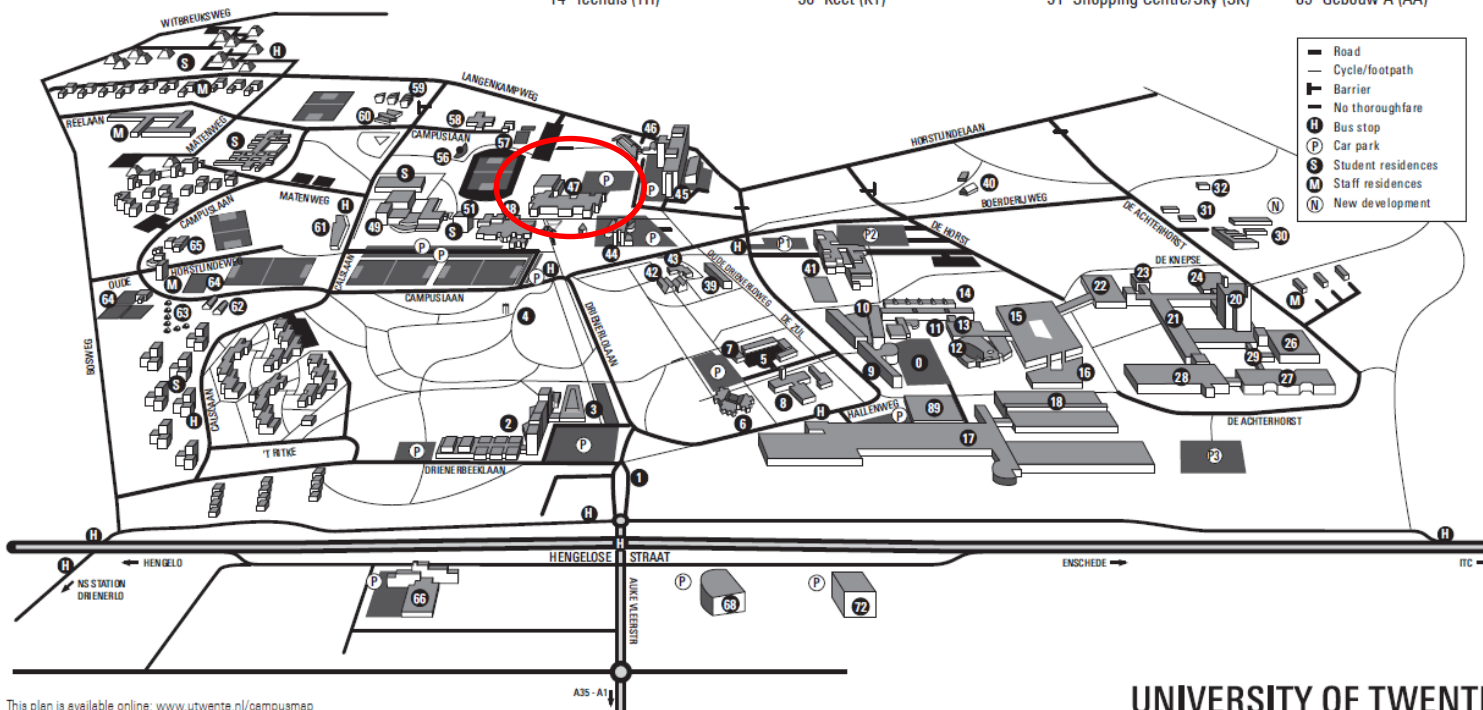
Ans Veenstra,  
Phone: + 31 53 489 3841 or 5378  
E-mail: [EMS@tnw.utwente.nl](mailto:EMS@tnw.utwente.nl)

Best regards,

Marcel ter Brake, chair holder EMS, chairman of SuperACT  
Herman ten Kate, chair holder ITS

# PLAN OF THE UNIVERSITY OF TWENTE

- |                                 |                     |                             |                                   |
|---------------------------------|---------------------|-----------------------------|-----------------------------------|
| 0 O&O plein (OO)                | 15 Carré (CR)       | 31 Wind Park (WP)           | 56 Openluchttheater (OUT)         |
| 2 Spiegel (SP)                  | 16 Nanolab (NL)     | 32 Biomagnetic Centre (BI)  | 57 Swimming Pool (ZW)             |
| 3 Vleugel (VL)                  | 17 Langezijds (LA)  | 39 Chalet (CT)              | 58 Sleutel (SL)                   |
| 4 Carillon (CN)                 | 18 ArtEZ (AR)       | 40 Erve Holzik (ER)         | 59 Mondriaan (MO)                 |
| 5 Garage (GA)                   | 20 Horstoren (HT)   | 41 Cubicus (CU)             | 60 Vlinder (VI)                   |
| 6 Paviljoen (PA)                | 21 Horstring (HR)   | 42 Faculty Club (FC)        | 61 Santar (SA)                    |
| 7 Seinhuys (SH)                 | 22 Westhorst (WH)   | 43 Schuur (SR)              | 62 Boerderij Bosch (BB)/Stal (ST) |
| 8 High Pressure Laboratory (HD) | 23 Kleinhorst (KH)  | 44 Drienerburght (DR)       | 63 Cabins (BL)                    |
| 9 Citadel (CI)                  | 24 Noordhorst (NH)  | 45 Hogekamp (HO)            | 64 Tennis Park (TP)               |
| 10 Ravelijn (RA)                | 26 Oosthorst (OH)   | 46 High Tech Factory (HTF)  | 65 Logica (LO)                    |
| 11 Zilverling (ZI)              | 27 Meander (ME)     | 47 Vrijhof (VR)             | 66 BTC                            |
| 12 Waaier (WA)                  | 28 Zuidhorst (ZH)   | 48 Bastille (BA)            | 68 KPMG Building (KP)             |
| 13 Hal B (HB)                   | 29 Buitenhorst (BH) | 49 Sportcentrum (SC)        | 72 Corridor (CO)                  |
| 14 Teehuis (TH)                 | 30 Keet (KT)        | 51 Shopping Centre/Sky (SK) | 89 Gebouw A (AA)                  |



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 For a 3d version see [maps.utwente.nl](http://maps.utwente.nl)

