

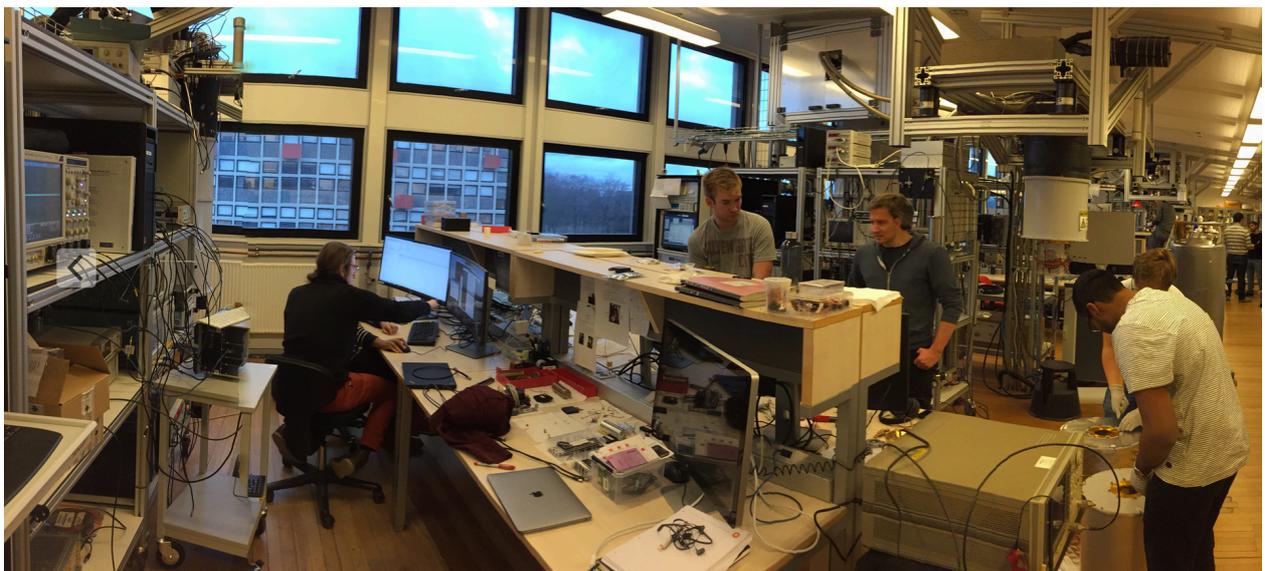
Highlights for 2017

This has been a year of exciting developments and continued growth for the Center for Quantum Devices (QDev). Personnel in the Center now exceed 100 researchers, including professors, postdocs, PhD candidates, Masters students, and a few motivated Bachelors students engaged in research, supported by a DG funds as well as a number of grants beyond D NRF funding. In particular, a significant part of our research funding comes from Microsoft Research, which has also invested to expand our facilities.

Research in QDev continued to receive international attention. Highlights include a number of articles in Physical Review Letters, the leading society journal in physics. We note the international collaborations behind these publications, with co-authors from academic institutions in Germany, US, Israel, and Australia among these ten publications.

Work in QDev was recognized with a number of awards and honors: Assistant Professor Peter Krogstrup was awarded an ERC Starting Grant and a Marie Curie Innovative Training Networks Grant. Associate Professor Mark Rudner was awarded the Jens Martin award for *Teacher of the Year* at the Niels Bohr Institute, and PhD student Frederik Nathan was awarded a EliteForsk travelling scholarship.

National outreach this year included a Youtube talk by PhD student Fabio Ansaloni. Note that the immigration laws in Denmark discouraged Charles Marcus and Mark Rudner as well as other non-EU Center members from participating in visible national outreach. We look forward to a revision in these laws. In international outreach, QDev welcomed 61 international visitors and hosted 31 seminars and lectures in 2017. Charles Marcus presented seminars in the Netherlands, Switzerland, and the US.



A typical busy day in at the Center for Quantum Devices

To celebrate our remarkably international community in QDev we initiated an international film festival of sorts, featuring movies selected by a representative from each of 29 nationalities in QDev. So far, films from Canada, Argentina, China, France, and India, have been screened, with Pizza served. We find this a great way to celebrate diversity and bring people together in a culturally meaningful way.

In 2017 QDev participated in *ARTIS – Art in Science* initiated by the SCIENCE Faculty of the University of Copenhagen and submitted images for the DNRF photo series *the Beauty in Science*. The artists are represented by all members of the group, including PhDs, postdocs, and faculty.