

Editorial Foreword

(E49) Issue 49 of the Superconductivity News Forum is finally available with quite a number of additions compared to the Preview 1! Still, it appears later than planned - the Corona virus is still active and slows down the response time of authors and organizations. Hopefully, this will be one of the last Issues hampered by these circumstances.

With the news about room-temperature superconductivity, Paul Chu wrote a very interesting article for our "Science and Technology Highlights" section with the title "Room-temperature Superconductivity – What More Needs to be Further Studied!" And we are very glad that Erik DeBenedictis took the time to write down his "Observations from Quantum Week and Opportunities for CSC".

The section about the virtual ASC 2020 now contains nearly all plenaries and Young Scientist Visions plenaries as PDF files. The talk of Arthur Lichtenberger about black holes and superconductivity is also available as a linked video. As soon as videos of other talks become available, we will add links to the plenary talks.

In the Electronics section we publish six invited presentations, four of them also as linked video presentations! Four of the presentations deal with qubits, one with superconducting digital electronics, and one with the enabling thin film technique. In the Materials section we publish three invited talks covering power dissipation by trapped vortices, the effect of magnetic particles on flux pinning in YBCO, and the development of iron-based wires and tapes.

Finally, from the IEEE Quantum Week, we include two contributions, one about the wiring of Qubits and one about the hardware needed for efficient measurements and signal delivery to superconducting quantum processors. It is interesting to note that superconducting quantum information research is starting to become an important engineering field, too!

We hope that you will find this Issue informative and timely. As always, you will also find information about conferences and technological highlights in this Issue No. 49 of SNF.

Horst Rogalla and the SNF Editorial Team