

## German Workshop on Cryoelectronic Components, Kryo 2013

October 21, 2013 (HE81). This year the annual German Workshop "Kryoelektronische Bauelemente" (Kryo 2013, in English "Cryoelectronic Components") was organized by the Institute for Micro- and Nano-electronic Systems of the Karlsruhe Institute of Technology (IMS-KIT). The conference was chaired by Prof. Michael Siegel and was held in Bad Herrenalb a resort in the Black Forrest. 73 scientist and engineers of universities, research centers and companies from Germany, France, the Netherlands and USA presented and discussed their current research results and applications of cryoelectronics. At this year's meeting all oral presentations were given in English. The meeting was excellently organized, also thanks to the efforts of Mr. Erich Crocoll of IMS, the coordinator.

The meeting started with two tutorials on Hybrid Quantum systems and Superconducting Nanowire Single-Photon Detectors (SNSPDs). The first tutorial was given by Pavel Bushev<sup>1</sup> from "Physics Institute" of KIT. He provided an overview of possibilities to merge the advantages of superconductive and optical quantum systems to overcome certain restrictions, especially the rather short coherence time of superconducting qubits. The second tutorial was given by Konstantin Ilin from the IMS-KIT. Besides the explanation of fundamentals of operation of a SNSPD, Ilin discussed the extension of the spectral range of SNSPD into the far-infrared spectrum by optimization of the superconducting thin films and adjustment of detector's geometry.

The program included 5 oral Sessions with 19 talks about SQUIDS, Quantum Effects, SNSPDs, THz-Devices and cryoelectronic systems.

During the 3 hour poster session 28 posters were presented in the topical range of the five oral sessions. Participants had time for detailed discussions of theoretical and experimental results.

As in the years before, the conference provided a platform to discuss and exchange actual developments and new ideas in the field of superconducting devices. The detailed program can be downloaded [here](#). The group photo of participants is shown below.

The next Workshop, Kryo 2014, will be organized by PTB-Berlin in Berlin-Koepenick, September 21 to 23, 2014. The venue will be Hotel Mueggelsee, directly on the lake of that name, with convenient transportation to the center of Berlin. The KRYO 2014 two publicity slides are also reproduced below.

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<sup>1</sup> Now appointed Professor at the Saarbruecken University, Germany.

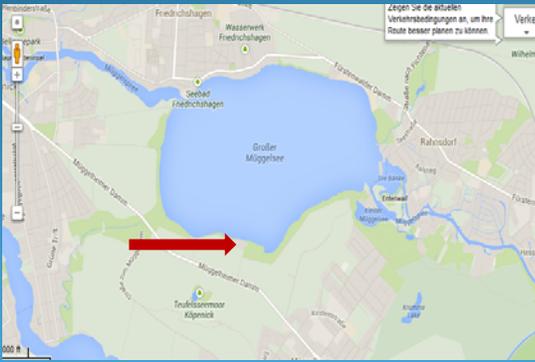


Group photo of KRYO 2013 participants. The chair, Michael Siegel, stands in the first row, extreme left.

Welcome to Kryo 2014 in Berlin!



- September 21. - 23.09.2014
- Berlin-Köpenick



- S-Bahn
- Bus stop

The slide features a blue background with a white wave-like graphic at the top. The text is in white. The PTB logo is a stylized blue and white graphic. The map shows the Köpenick district with a red arrow pointing to the location of the event near the Müggelsee. The text on the right side of the slide provides details about the dates and location, and lists transportation options.

KRYO 2014 publicity slide 1.



KRYO 2014 publicity slide 2 – venue of the Workshop.