

Press Release

Focus on defects

For four days, scientists discussed methods for analysis of crystal imperfections at the 18th International DRIP Conference in Berlin

Berlin, September 16, 2019

From 9 to 12 September, it was all about crystal defects in semiconductors at Novotel Tiergarten. 119 scientists from 17 countries met there for the XVIII. DRIP conference, which was jointly organized by the Ferdinand-Braun-Institut (FBH) and the Leibniz Institute for Crystal Growth. "We were not only able to attract outstanding scientists from all over the world, but also successfully presented our own research and young scientists," reports Dr. Anna Mogilatenko from FBH, who co-organized the conference. Two junior prizes, the Best Student Poster Award (Jonas Weinrich) and the Best Student Oral Presentation Award (Norman Susilo), were presented by the international steering committee. The work of the two PhD students was carried out at or in cooperation with the Ferdinand-Braun-Institut. The participants of the DRIP conference particularly welcomed the multidisciplinary approach of the conference and the manifold possibilities for networking.

About the DRIP Conference

The international conference deals with techniques and tools to comprehensively analyze crystal defects in semiconductors. Their influence on the fundamental material properties and the associated electronic and optoelectronic devices can thus be evaluated, leading to increased efficiency and improved performance. Such devices include semiconductor-based laser diodes, LEDs, transistors and solar cells, which drive innovation in a variety of areas: from 5G to renewable energies. <https://drip18.fbh-berlin.de>

A **press picture** is available [here for download](#). All images are copyrighted.

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Background information – the FBH

The Ferdinand-Braun-Institut, Leibniz-Institut fuer Hoechstfrequenztechnik (FBH) researches electronic and optical components, modules and systems based on compound semiconductors. These devices are key enablers that address the needs of today's society in fields like communications, energy, health, and mobility. Specifically, FBH develops light sources from the visible to the ultra-violet spectral range: high-power diode lasers with excellent beam quality, UV light sources and hybrid laser systems. Applications range from medical technology, high-precision metrology, and sensors to optical communications in space and integrated quantum technology. In the field of microwaves, FBH develops high-efficiency multi-functional power amplifiers, and millimeter wave frontends targeting energy-efficient mobile communications as well as car safety systems. The FBH has a strong international reputation and ensures rapid transfer of technology by working closely with partners in industry and research. The institute has a staff of 300 employees and a budget of 37.9 million euros. It is part of the Forschungsverbund Berlin e.V., a member of the Leibniz Association and part of »Research Fab Microelectronics Germany«.

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