

TUD 2028 – SYNERGY AND BEYOND

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EXCELLENCE & RESEARCH CLUSTERS

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Dear Readers,

Since **1 November 2019**, the funds of the Excellence Strategy have been flowing. The implementation of the measures from our Excellence Application "TUD 2028 – Synergy and beyond" is now also underway.

Concurrent with the start of the new funding phase, the chapter headings of this newsletter have also changed: "Institutional Strategy" became "TUD 2028 – Synergy and beyond", "Clusters of Excellence" became "Excellence & Research Clusters", since the two institutions Center for Advancing Electronics Dresden (cfaed) and Center for Regenerative Therapies Dresden (CRTD) will no longer be funded as Clusters of Excellence, now that the Excellence Initiative has expired. CRTD and cfaed will of course continue their successful work as "**research clusters**" of TU Dresden.

Information Session on the Results of the Employee Survey



Around 2,700 TUD employees from science, administration and technology participated in the **university-wide online survey** in May and June 2019. The aim of the survey was to obtain a comprehensive picture of employees' needs and how satisfied they are with their working conditions. Central topics included **management culture**, the **culture of cooperation and communication**, as

well as experiences of dealing with **diversity** in daily interaction.

The results will be presented on **29 November 2019 from 1 pm to 3 pm** as part of an internal TUD information session at the Festive Hall Dülferstraße.

After a presentation by Prof. Karl Lenz, Director of the Center for Quality Analysis, there will be opportunity for discussion with members of the University Executive Board.

Registration is not necessary.

After the event, the results will be published for **TUD internal download** at <http://tu-dresden.de/beschaeftigtenbefragung>.

GA Provides Information on Postdoctoral Career Paths



PhD – and then what? Sooner or later all doctoral students have to deal with this question.

On **13 December 2019**, the Graduate Academy (GA) will once again be offering all doctoral students and postdocs at TU Dresden the opportunity to familiarise themselves with career prospects outside of science at the **6th Career Day** starting at **9.30 am** at the Festive Hall Dülferstraße.

GA alumni will report about their individual career start and personnel managers from various companies (e.g. Infineon, BASF) will give helpful tips on the application process

and will be available to answer specific questions.

In his keynote address, **Dr. Hays Steilberg** (Executive Vice President Corporate HR, Executives and Talent, Bertelsmann) will explain, among other things, why Bertelsmann is explicitly looking for to hire social scientists for management positions.

It is not necessary to register for the event.

Successful Kick-Off-Meeting of the ct.qmat Quantum Matter Academy

Around 70 early career researchers from the **Quantum Matter Academy (QMA)** of the Cluster of Excellence "Complexity and Topology in Quantum Materials" (ct.qmat) met for the first time in Meißen from **8 to 10 October 2019**. The Dresden and Würzburg participants got to know each other and laid the foundation for new joint projects during **lectures, poster presentations and discussions**. In addition, four QMA representatives were elected for the various decision-making bodies of the cluster.



The Quantum Matter Academy is a central organisational ct.qmat structure that is responsible for the **academic further education and individual promotion of early career researchers**. Since ct.qmat operates at two locations (Dresden and Würzburg), it also serves as a networking hub, which in turn benefits new research cooperations.

Dr. Anke Fuchs Is New Research Group Leader at the CRTD



The [Center for Regenerative Therapies Dresden \(CRTD\)](#) welcomes Dr. Anke Fuchs as new research group leader. Her group develops novel and **individualised cell-based therapeutics** from which leukaemia patients can benefit after stem cell transplantation with severe inflammatory complications.

In addition to the CRTD, Dr. Anke Fuchs is also supported by the [Mildred Scheel Early Career Center](#). The Center enables medical-research natural scientists and clinical-research physicians to carry out **translational projects** in order to apply the latest research results from basic research to everyday clinical practice as quickly as possible.

Yana Vaynzof Is New cfaed Open Topic Professor



Since 1 October 2019, Yana Vaynzof heads the **Chair for Emerging Electronic Techno-**

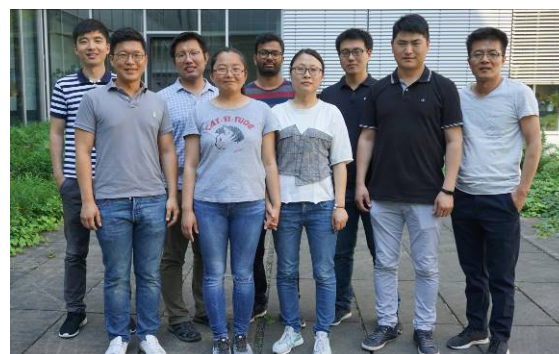
logies at TU Dresden. This is a **new "cfaed-Open Topic-Professorship"**, which is located at the [Institute for Applied Physics](#) and in the research cluster [Center for Advancing Electronics Dresden \(cfaed\)](#).

Prof. Vaynzof's research focuses on the **analysis, development and optimisation of novel solar cell technologies**. Using her spectroscopic measuring method, it is possible to map the energy landscape inside solar cells over time with a resolution in the nanometer range. This facilitates the identification of energy losses and the search for more efficient solar cell architectures.

Prof. Vaynzof has held a junior professorship in Heidelberg and previously worked at Cambridge University and Princeton University. She was awarded an ERC Starting Grant from the EU.

cfaed Researcher Receives ERC Starting Grant

The European Research Council (ERC) is funding [three research projects of young scientists at TU Dresden](#) amounting to almost 4.5 million euros.



One of them is [cfaed junior research group leader Dr. Renhao Dong](#) (2nd from right). Over a period of 5 years, he will receive approx. 1.5 million euros for the **development of functional two-dimensional organometallic scaffolding compounds**. These consist of only one or a few layers and, due to the

adjustability of their electronic and magnetic properties, are suitable for **electronic and spintronic applications** – a promising approach for high-performance novel components.

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