

EXZELLENCEN NEWSLETTER

6 June 2019

INSTITUTIONAL STRATEGY

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CLUSTERS OF EXCELLENCE

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Dear Readers,

Following on from the success of the Future Labs in the Excellence Strategy as a way to generate ideas, this form of participation is now being continued:

On **11 July 2019**, at **9am in the IHD (Zellescher Weg 24)**, an interdisciplinary Future Lab will begin, with six different thematic discussion circles grouped under the heading **"FAKE SCIENCE?! Wissenschaft zwischen gesellschaftlicher Verantwortung und Skepsis"** (*Science between social responsibility and scepticism*).



The **transfer of knowledge to the public domain** faces new challenges in these times of fake news, mistrust of experts and conspiracy theories. Be it **climate change, migration or food safety**: there has always been scepticism about science. What is new, however, is the **type of discourse** that, thanks to Google and social media, is rapidly gathering momentum and is often dominated by self-appointed experts and **"perceived knowledge"**.

How can **scientific communication** succeed in a changing society? And what exactly are the **tasks of science in the public sphere**? The Future Lab, which is open to all members of TUD and the **DRESDEN-concept partners**, will seek answers to these questions.

Further information and the link for registering can be found at:

tu-dresden.de/fake-science



At the same time, the Future Lab will mark the beginning of a new series of events at TU Dresden. Entitled “TUD in Dialogue”, this series will be testing **new dialogue and participation formats** for the exchange with civil society, and will start in the 2019/20 winter semester.

Summer School on “Technology Transfer in Life Sciences”

This year, from **16 to 20 September**, the “International Summer School on Technology Transfer in Life Sciences” will take place in Dresden for the 7th time.

During the one-week event, experts from various fields will impart specialist knowledge on the subjects of **technology transfer, patent law, licencing and founding spin-off companies**. Central questions include: How do I recognise the commercial potential of my research? How do I protect my inventions? What are the advantages resulting from licencing and spin-offs?

Every scientist with relevant research results and ideas is cordially invited to apply. **Participation is free of charge**. Applications can be submitted on the homepage at <http://summerschool-dresden.de> until **23 June 2019**.

The summer school is funded by the Institutional Strategy as part of the Excellence Initiative of the German Federal and State Governments.

Second GA “Nerd-Night”

Despite ongoing construction work, the Graduate Academy (GA) will be celebrating summer: **from 6pm on 18 June 2019**, the GA will hold its **2nd GA “Nerd Night”** – the tongue-in-cheek knowledge quiz.

Registration of teams who are ready to get guessing is still possible until 14 June at graduertenakademie@tu-dresden.de.

Next year, the GA summer party with its traditional mortarboard contest will then once again take place in the newly designed grounds of the Graduate Academy.

GA Workshop for Postdocs on PhD Supervision

From **9am to 5pm on 16 September 2019**, the Graduate Academy (GA) will be hosting the workshop “How to co-supervise doctoral researchers”. The workshop is intended for postdocs who are interested in pursuing a career in science, and who are taking on or are about to take on their first supervisory assignments. It is open to all disciplines and will be held in English. **Membership** in the GA is a requirement for participation.

GA Award Conferred for Excellence in PhD Supervision

In order to raise awareness for the **importance of good supervision for PhD candidates**, the Graduate Academy (GA) has now bestowed its **Award for Excellence in Doctoral Supervision** for the third time. From 41 candidates, many of them nominated several times, the GA Board has selected as award winners two female supervisors from the School of Humanities and Social Sciences:

- **Prof. Marina Münkler**
Chair of German Medieval and Renaissance Literature and Culture

• **Prof. Dorothee Wieser**

Chair of Contemporary German Literature and Didactics of German

The award is endowed with a total of 5,000 euros and will be presented at the meeting of the Senate of TU Dresden.

DDc Science Cruise on 24 July

On 24 July 2019, it is “full steam ahead with DRESDEN-concept”. For the third time now, the research alliance is inviting you to a **networking event** on the Elbe river steamship “MS August der Starke”.



In a relaxed atmosphere, with good music and the best views of the banks of the Elbe in Dresden, the Science Cruise offers a unique opportunity to talk to (junior) scientists from all DRESDEN-concept partners.

In addition to the trip from Dresden’s Old Town to Pillnitz Palace and back again, the **ticket price of 10 euros** includes a snack on board. The cruise will take about three hours, and **boarding starts at 5pm at dock 2**.

Tickets can be [purchased online](#).

“Dresden Science Night” Provides Insight into Clusters of Excellence

TUD’s Clusters of Excellence will be opening their doors from **6pm to 1am** during **Dresden Science Night** on **14 June 2019**, offering hands-on activities, experiments and lectures.

The Center for Advancing Electronics Dresden (cfaed) will present its **high-tech laboratory for nanoanalysis** (Helmholtzstraße 18); the Center for Regenerative Therapies Dresden (CRTD) will e.g. turn **stem cell and diabetes research** into a hands-on experience (Fetscherstraße 105). The Centre for Tactile Internet (CeTI) will showcase the subject of human-machine interaction in a 17-metre-long **“CeTI Truck”** on Mommsenstraße.



“Dresden Microelectronics Academy” at the cfaed

From **16 to 20 September 2019**, for what will be the 18th time now, the “Dresden Microelectronics Academy” (DMA) will kick off at the Center for Advancing Electronics (cfaed).

You can register as of now – and it is worth being quick: until 23 June, you can benefit from lower prices. Also, the number of participants is limited. The DMA will provide **exclusive insights** into production and processes at industry giants such as **Globalfoundries, X-FAB or Infineon**.

The goal of the DMA is to introduce participants to the work carried out by the local microelectronics industry and the **cfaed Cluster**, in this way establishing **contacts with potential doctoral candidates and postdocs**.

cfaed Verifies Charge Transfer Mechanism in Organic Transistor

Physicists from the [Center for Advancing Electronics Dresden \(cfaed\)](#), together with researchers from Spain, Belgium and Germany, were able to show in a study [how electrons behave when injected into organic semiconductor films](#).

The team of cfaed group leader Dr. Frank Ortmann was able to show that the electronic transport mechanism can be described by the so-called **Marcus hopping model**, which was developed by the American chemist Rudolph Arthur Marcus.

“For the first time, we have succeeded in proving the ‘inverted Marcus regime’, in which a higher voltage generates a lower current, **in an organic transistor** in which the injection voltage can be actively controlled,” says Ortmann. This will lead to a **better understanding of electronic and opto-electronic organic devices** in general.

The study has been published in “Nature Communications”.

Leukaemia Patients Benefit from New CRTD Research

The [Center for Regenerative Therapies Dresden \(CRTD\)](#) and the University Hospital Carl Gustav Carus have developed a novel process for the automated proliferation of immuno-suppressive cells for therapeutic purposes.

The regulatory T cells obtained in the [Good Manufacturing Practice \(GMP\) Facility](#) of the CRTD – a technology platform for the production of novel drugs – can be used to produce ready-to-use infusion solutions. This will initially be of benefit to **leukaemia patients after stem cell transplantation with severe inflammatory complications**.

The research findings [have been published](#) in “Frontiers in Immunology”.

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