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## Dear Readers,

Things have been hotting up in recent weeks: it is not only the tropical summer that has been keeping us on our toes; the race to defend our status as a “University of Excellence” is also entering its critical stage.

We have been working at full speed on our proposal in the “Universities of Excellence” funding line. In about three weeks’ time, we will know whether we will even be allowed to submit it. On **27 September 2018**, the clusters selected for the first funding period of the Excellence Strategy will be announced. If two or more of our six cluster proposals are on the list, we will be eligible to apply for the “University of Excellence” title. So now it is a question of being patient and keeping our fingers crossed until the decision is made!

Anyone who has lost track of what terms such as cluster, University of Excellence proposal or funding line actually mean, can now have an informative look at a detailed catalogue of questions and answers on the Excellence Strategy.

The **documentation on the six Future Labs**, which took place in the first half of 2018, and whose results will be incorporated into our University of Excellence proposal, also provides a lot of reading material (access with ZIH login).

**Register Now for SprInt Language Courses in Winter Semester 2018/19**

Those who like to decide on the spur of the moment can still register for the new **SprInt English courses** up until **5 September 2018**. Information on the registration procedure is available on the SprInt website.

**Bionics Exhibition with Examples of Student Research**

To conclude the project “Research and Learning in the Interdisciplinary Context (FLiK) of Bionics”, an exhibition displaying

examples of student research is being shown in the foyer of the Biology Building (Zellescher Weg 20b).



(Photo: Prof. Daniel Lordick)

As part of the [FLiK module "Bionics"](#), a total of nine groups of TUD students researched biological structures and materials in order to **transfer their functional principles into technical applications**. The students were supervised by a team of lecturers who introduced perspectives of engineering, mathematics, biology and design into the project. The interdisciplinary exchange of ideas revealed the possibilities and limitations of modelling **examples from nature** and transferring them into technically exploitable constructions.

The results are being presented in the shape of **posters and 3D models** and can still be viewed until **26 October 2018**.

The FLiK module "Bionics" was coordinated by the Centre for Interdisciplinary Learning and Teaching (ZiLL).

### **"MEHRWERT" Project Carries Out First Stocktake**

The pilot project MEHRWERT (inclusion of **gender and diversity aspects in STEM research**) can look back on a successful summer semester. In particular, the **three school-specific workshops** organised by the three participating visiting professors Dr. Waltraud Ernst, Dr. Martina Erlemann and Dr. Geeske Scholz, held in May 2018,

were able to attract a great deal of attention for the topic.

An international workshop on **"Diversifying Epistemic Perspectives. Gender and Diversity for Participation in Science & Engineering"**, jointly organised by the visiting professors, will take place on **25 September 2018**. Among the participants are speakers from Sweden, Austria, France and the Netherlands. You can register for the workshop [by e-mail](#).

The **closing event** of the MEHRWERT project will take place from 1.30 to 3.45 pm on **24 October 2018**, in the Festsaal (*ballroom*) of the Rectorate Building (Mommsenstraße 11).

### **GA Award for Excellence in Doctoral Supervision**

With its Award for Excellence in Doctoral Supervision, the Graduate Academy (GA) is this year once again recognising **extraordinary commitment to PhD supervision**. Doctoral candidates and postdocs at TU Dresden were able to nominate their doctoral supervisors for the award. 44 proposals have been submitted, from which the [GA Board](#) will select the winner. Prize money amounting to €5,000 beckons.

In addition to this, in the winter semester of 2018/19, the GA will again be offering a one-day **intensive workshop exclusively for supervisors** on the topic of **"Good Doctoral Supervision"** to support them in their important task.

### **DDc Alliance is Growing Steadily**

DRESDEN-concept (DDc) is growing steadily: since 1 August 2018, the [Barkhausen Institut gGmbH](#) has been **number 28 on the list of members** of the research alliance.

Founded only this year, the Institute researches the **Internet of Things (IoT)**. The Internet of Things is the vision of a global infrastructure that enables physical and virtual

objects to be connected in a wireless network.

### Science Tour of City in DDc Tram

On **26 September 2018**, a very special **city tour of Dresden** will take place, starting at 5.30 pm. In a 70-minute tram ride, directors of several research institutes of the **DRESDEN-concept partners** will be giving an introduction to the science location. During the ride, the speakers will introduce their respective institute in a series of three-minute talks.

The event will take place in the specially designed **DDc tram**, which will run for a year as part of the Dresden public transport network from August on. During this time, it can also be used for exclusive tours by **DDc partners**.



(Photo: Ströer)

After the tram ride, passengers can **network over snacks and drinks** in the garden of the **Max Planck Institute for the Physics of Complex Systems** at Nöthnitzer Straße 38, and talk to some of the directors of the various institutes.

Tickets for the exclusive tour cost €2.50 and can be purchased via **Eventbrite**.

### Alzheimer's in Mini Format

How might it be possible to **support brain repair processes**? Laboratory tests currently being carried out provide clues to this problem. Researchers from Dresden have suc-

ceeded in imitating mechanisms of Alzheimer's disease in a novel stem cell-based model system. The knowledge gained here may be able to help in the search for therapeutic options.

Research institutions from Germany and abroad, including the **Center for Regenerative Therapies Dresden (CRTD)**, were involved in the study.

### University Medicine Coordinates New DFG Priority Programme

The new nationwide **"µBONE" priority programme** of the German Research Foundation (DFG) is being **coordinated by Dresden University Medicine**. It is the first medical DFG programme of its kind in Dresden. In addition to many other partners, the **Center for Regenerative Therapies Dresden (CRTD)** is also participating in the programme.

During the next six years, scientists from all over Germany will collaborate closely so that bone metastases after previous breast or prostate cancer can be detected early and prevented. A total of €7.8 million is available for the programme. Around three million euros from the budget will go to the Dresden location.

### TUD Summer University at the CRTD

On 7 August 2018, the **Center for Regenerative Therapies Dresden (CRTD)** **welcomed inquisitive pupils** to the **TUD Summer University**. They were given an introduction to retinal research at the **CRTD**, to the careers of professor, postdoc and technician, and to the opportunities for studying at the **Center for Molecular and Cellular Bioengineering (CMCB)**.

The annual **Summer University at TU Dresden** is intended to support pupils in their choices of career and degree programme within the STEM disciplines (*German: MINT*,

*mathematics, IT, natural sciences and technology*). During the event, they learn about various research institutions and meet scientists at TU Dresden.

The dates for the 2019 TUD Summer University have already been fixed. You can register from 9 January 2019.

### New cfaed Building with Analytics Centre Goes Into Operation



Finance Minister Dr. Matthias Haß (2<sup>nd</sup> r.) and Science Minister Dr. Eva-Maria Stange handing over the keys to TUD Rector Prof. Hans Müller-Steinhagen (1<sup>st</sup> l.) and cfaed Director Prof. Gerhard Fettweis (1<sup>st</sup> r.) (Photo: cfaed)

With the official opening of its new building on 17 August 2018, the Center for Advancing Electronics Dresden (cfaed) can for the first time **realise a spatial concentration of a large part of its scientists**. The most demanding part of the project was the construction of laboratories for the **Dresden Center for Nanoanalysis (DCN)**, which combines highly sensitive electron microscopes and other specialised analytical equipment.

A timelapse video of the construction phase from June 2015 to July 2018 is [available on YouTube](#).

### cfaed Project VISIOMAT: Exhibition Opening

As part of the Science Year on the topic of "Working environment of the future", Dresden children and young people between the

ages of 8 and 18, together with artists and scientists from the [Center for Advancing Electronics Dresden \(cfaed\)](#) and TU Dresden, have investigated the question of **how we will and how we want to work in the future**.

The results were transformed into an interactive exhibition, which will open on **15 September 2018**, 3 pm, at the [Kraftwerk Mitte](#). The exhibition can then be seen in public places in Dresden for six weeks.

### 17<sup>th</sup> "Dresden Microelectronics Academy" About to Start

The traditional **cfaed Summer School "Dresden Microelectronics Academy" (DMA)** commences on **17 September 2018**. Around 50 international participants will get to know the world of wafers and transistors and gain an intensive insight into research and industry.

A last-minute registration is still [possible on the cfaed website](#) for a few days.

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