

ZUKUNFTSKONZEPT

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DEAR READERS,

For the first time in 16 years, the celebrations for the [Anniversary of German Unification](#) will once again be taking place in Dresden. And the Excellence University TU Dresden is at the heart of the action: first of all, of course, with [DRESDEN-concept's](#) science exhibition on view in front of the Frauenkirche, but also with the special stand of the School of Medicine and the study guidance services that is part of the "Pack Dein Studium" (Master your degree course) campaign. On the TUD campus, too, a number of international events will serve to make this a colourful and lively autumn.

TRANSFER WEEK 2016
WITH INTERNATIONAL GUESTS

The [TRANSFER WEEK 2016](#) on the topic of "Energy and Materials" will take place from 9 to 11 November at TU Dresden. The event will bring together researchers from the areas of energy and materials, as well as knowledge transfer experts from Switzerland, Belgium, the Netherlands, the Czech Republic and Germany. With speakers from renowned research institutions such as ETH Zurich, KU Leuven, TU Delft and the Universität St. Gallen, as well as workshops on a variety of topics, the TRANSFER WEEK provides an opportunity for exchanging experiences in science and technology transfer and establishing new cross-border collaborations with the aim of prospective joint projects.

ONLINE SELF-ASSESSMENT TESTS
FROM SEPTEMBER

The "[Online Self-Assessment Tests \(OSAs\)](#)" project was launched successfully on 1 September. Within the project, computer-based self-assessment tests are being developed for prospective and new students of the pilot degree programme in Electrical Engineering and combined with an information and advisory service at the University. This opportunity for blended learning is designed to encourage students to really engage with their chosen degree programme from the beginning of their

course or even before it starts. In this way, OSAs are intended to promote an early, conscious choice of degree programme and to counteract the risk of dropping out later on. This project is not only a measure of the Institutional Strategy, but also a sub-project of the overall concept for improving academic success at TU Dresden, and is financed by the European Social Fund (ESF) and the Free State of Saxony.

SPRINT INFORMATION ON STAYS ABROAD

A stay abroad at a university, a firm or an organisation is a requirement for the "Special" version of the [Sprint](#) Certificate. All interested parties are warmly invited to an information session clarifying the issues relevant to organising such a stay abroad. This will take place on Thursday 20 October between 2.45 p.m. and 3.45 p.m. in Graduate Academy, 7 Mommsenstrasse. In collaboration with the International Office and the LEONARDO OFFICE SAXONY, the steps necessary for applying for and financing the stay abroad will be explained. What is more, two Sprint participants will be reporting on their experiences of staying in Finland and Great Britain. During the 2016-2017 winter semester, the Sprint Programme for language and intercultural qualification for non-academic staff at TU Dresden will once again provide a comprehensive range of intercultural seminars and job-related English courses.

SUMMER SCHOOL VISITORS TRAVEL FROM AS FAR AS AUSTRALIA

Young researchers from all over the world are currently meeting up at various International Summer Schools on the TUD campus for the "Summer of Excellence". The highlight will be a joint "Night of Excellence" on 5 October, at which more than 120 participants from all five continents are expected to attend. Summer School visitors are travelling from as far afield as Australia. For the beginning of October, two International Summer Schools are planned as part of the Institutional Strategy, and a meeting of regional ambassadors from around the world is also on the agenda. Also, from 3 to 14

October, participants of the Henry Arnold Summer School will be discussing cultural institutions as "political locations". On 4 October, an international internship foyer will be held, organised by the TUD Alumni Office and the LEONARDO OFFICE SAXONY.

SUPRATRANS RIDE WITH DRESDEN-CONCEPT



The only bigger thrill would be flying: the winner of the [DRESDEN-concept](#) competition to mark the Long Night of the Sciences, Raymond Kick from Dresden (right), redeemed his prize on 19 September – a test ride with the levitating SupraTrans. At his side, Prof. Ludwig Schultz, office manager of [DRESDEN-concept](#) and one of the developers of the SupraTrans. Photo: [DRESDEN-concept](#)

FIRST GRADUATE ACADEMY WRITING RETREAT IS A SUCCESS

From 6 to 11 September, 20 PhD candidates and post-docs took part in the first [Graduate Academy](#) writing retreat in the meeting centre at St. Marienthal Abbey. The opportunity was aimed at all those wanting to take a break from the hectic business of everyday university life

in order to concentrate fully on writing their own academic texts. The structured days with fixed writing times – almost four hours in the morning and another three hours in the afternoon – helped participants to achieve the objectives they had set themselves. Individual conversations with trained writing coaches were also well received.



*At the writing retreat in St. Marienthal Abbey.
Photo: Graduate Academy*

UN DAY: TU SLAM ON ENVIRONMENTAL TOPICS

TU Dresden is making a contribution to the **UN DAY** on 28 October with a “Sustainable Science Slam” from 2 p.m. onwards in the World Trade Center, Dresden. Environmentally relevant research topics will be on the agenda. For example, the Indian “**Trefftz**” professor Dr. Madhuri Wuppulluri presents her research project “Regenerative Solar Cooling System”. The transport ecologist Dr. Thilo Becker will be speaking about planning bicycle traffic using GPS data, Dr. André Lindner will explain “Pollination as a service to the ecosystem” with examples from West Africa, and Claudia Schönekerl from the junior research group INOWAS will take the audience with her into the “fascinating underwater world”. The Science Slam will be moderated by Dr. Anna Görner, Head of the Centre for International Postgraduate Studies of Environmental Management at TUD. The band “DHUN”, which features a number of TU researchers among its members, will perform at the subsequent after-work party.

CRTD OFFERS FIRST THREE PLACES FOR “FSJ” SCIENCE

The DFG Research Center for Regenerative Therapies Dresden (**CRTD**), Cluster of Excellence at TU Dresden, is for the first time offering the opportunity to do a voluntary social year (FSJ) in science. The first two participants, Jennifer Schwarz and Max Hyman, took up their work on 1 September. A third participant will start her voluntary service in January 2017. In addition to actively involving participants in research practice, the FSJ at the CRTD also gives them the chance to carry out a research project of their own, provides insights into activities of the CRTD and is intended to help with orientation for the later choice of professional training and career. In the shape of a voluntary social year in science, the CRTD is creating a novel alternative to traditional fields.



*Two pioneers: Jennifer Schwarz and Max Hyman are doing their voluntary social year in research.
Photo: CRTD*

3D PRINTER IMPLANTS TO SUPPORT REGENERATION OF THE BRAIN

Dr. Ivan Minev, research group leader at TU Dresden’s BIOTEC/CRTD, has been awarded a “Freigeist” Fellowship by the Volkswagen Foundation. Over the next five years, he will use the funding – worth 920,000 euro – to set up his own research group: “The Freigeist Fellowship will enable me to develop bioelectronic implants that can support the regeneration of the brain. The next five to ten years should see a ‘timetable’ for reaching this goal. Soft

materials and 3D printing technology will help me to develop functional implants for integration into the central nervous system. The challenge in this is to make the implants as soft as the brain tissue so that they are well-tolerated inside the body," explains Dr. Ivan Minev. The Freigeist Fellowships – open to all disciplines – are directed towards exceptional research personalities who have completed their PhD, who move between established research fields and who wish to carry out science subject to risk.

CFAED SETS UP GRAPHENE RESEARCH CENTRE

September 7 marked the official launch at Center for Advancing Electronics Dresden (cfaed) of the ESF-funded Young Researcher Group "Graphene Center Dresden" (GraphD). The centre will enjoy the support of several professorships at TU Dresden and is under the overall control of the Strategic cfaed Chair of Molecular Functional Materials (Prof. Xinliang Feng). At the same time, the event with its distinguished guests also served as the kick-off for including a future research path for 2D materials in the cfaed Cluster. A week later, Nobel laureate Sir Konstantin Novoselov (University of Manchester), the discoverer of graphene, took up an invitation by the cfaed and gave his lecture "Graphene: Materials in the Flatland" at TU Dresden.



*The founders of the Graphene Research Center.
Photo: cfaed*

CFAED: INTERIM REPORT PUBLISHED

The Cluster of Excellence cfaed has recently published a "half-time report". In it, the scientists of the Cluster clearly lay out the results and successes of their research collaboration that were already achieved in the first half of the current funding period (Nov. 2012 to Oct. 2017). The elaborately designed and richly illustrated brochure has 84 pages and can be ordered as a hard copy at the cfaed or downloaded from the website as a [pdf](#).

DIGS-BB WELCOMES NEW PHD CANDIDATES



During the week of 12 to 16 September, the "International PhD Fall Selection" of the Dresden International Graduate School for Biomedicine and Bioengineering (DIGS-BB) took place. At the end of the week, 14 of about 40 invited candidates were accepted on to the PhD programme as doctoral candidates. Photo: DIGS-BB

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