



Excellence Initiative Newsletter from 7 September, 2015

Dear readers, colleagues and students,

This year's GAIN (*German Academic International Network*) Annual Meeting from 28 to 30 August in San Francisco gave more than 300 young German scientists in North America the chance to exchange ideas with high-ranking local representatives from German science, politics and industry, and to establish important contacts for their future professional careers in Germany. The Rector and Vice-Rector of TU Dresden were also present to draw attention to the good research environment at the University of Excellence. In this newsletter, we would like to tell you about other topical developments happening in the Excellence Institutions during the coming weeks.

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Flexible Future in Point-of-Care Diagnostics

As part of the work being carried out within the Silicon Nanowires Research Path at the TU Dresden Cluster of Excellence "Center for Advancing Electronics Dresden" (cfaed), researchers have developed a lightweight and mechanically flexible diagnostic platform based on cost-effective, highly sensitive silicon nanowire field effect transistors made of flexible polymeric foils that are only 100 µm thick. The researchers would like to develop a highly sensitive diagnostic platform that is quickly able to recognise viral or infectious diseases, especially in developing countries. The work was conducted jointly by the Leibniz Institute for Solid State and Materials Research Dresden (IFW) in collaboration with the Chair of Materials Science and Nanotechnology at TU Dresden and the NaMLab gGmbH.

www.onlinelibrary.wiley.com/doi/10.1002/adhm.201500128/abstract

Project Scouts Organise "IDEENSTUDIO" for "Materialsweek"

On 15 September, 2015, The IDEENSTUDIO "From Material to Product", which has been organised as part of this year's "Materialsweek" at "Messe Dresden", will offer the chance to learn about current funding opportunities and new funding programmes. On this occasion, the BMBF's (*Federal Ministry of Education and Research*) new "i-wing 2015" programme on materials research is just as much at the centre of attention as the new framework programmes for validation funding (VIP+). The lectures are complemented by reports on experience gained in already successful funding projects. The event is aimed at potential applicants from science and industry, with particular emphasis being placed on small and medium-sized enterprises.

For more information: www.tu-dresden.de/projectscouts



Funding Programme for the Internationalisation Strategy

A new funding programme has been developed in order to implement the Internationalisation Strategy "TU Dresden – Connected to the World", and the decentralised strategy papers of the Schools. The strategy was adopted by TUD in spring 2015. The funding programme is financed by the Institutional Strategy and has six different programme lines which will provide academic and non-academic staff at TUD's central and decentralised organisational units with the opportunity to apply for financial support to carry out internationalisation measures which correspond to the fields of action and the objectives of the Internationalisation Strategy. The next application deadline is 31 October, 2015. If you have any questions or comments, please contact Andrea Büschel, Project Advisor for Academic Affairs and Internationalisation at internationalisierung.zuk@tu-dresden or 0351 463-35747. Detailed information about the individual programme lines and the application documents is available at: www.tu-dresden.de/internationalisierung/foerderprogramm

New SprInt Courses in the 2015-16 Winter Semester

New dates for intercultural seminars and language courses will be published on the SprInt Programme website at www.tu-dresden.de/sprint from the middle of September onwards. In the 2015-16 winter semester, there will again be a broad selection of seminars on cross-cultural and culture-specific competences. English language courses on a variety of topics and for different levels of proficiency will also be offered. Since the programme began in summer semester 2014, almost 400 colleagues have registered for the SprInt continuing education opportunity. In the meantime, the first "Basis" or "Spezial" SprInt Certificates have already been awarded to 20 "graduates". 15 participants have also already completed their stay abroad. You can find a selection of the reports of their experiences here:

<http://tu-dresden.de/exzellenz/zukunftskonzept/internationalisierung/sprint/erfahrungsberichte>



“Night of Excellence” for 200 Summer School Participants

On 6 October, TUD’s Rector Prof. Hans Müller-Steinhagen will welcome about 200 participants from International Summer Schools at a “Night of Excellence” in the “Festsaal” (banquet hall) on Dülferstraße. The “Summer of Excellence” is comprised of a total of 17 one-week TUD Summer Schools taking place from May to November, and involving all of the University’s Schools. Five Summer Schools will take place at the beginning of October, as will a convention of international regional ambassadors with the participation of TU Dresden alumni from all over the world.

More information at: www.tu-dresden.de/summerofexcellence

New Executive Manager at School of Humanities and Social Sciences

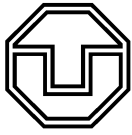
Christina Ada Anders has been the new executive manager at the School of Humanities and Social Sciences since 1 September. Previously, Christina A. Anders, who has a doctorate in German Philology, was responsible for the Project Scouts’ research priority area “Culture and Knowledge”. The Project Scouts are an Institutional Strategy measure. Details at: www.tu-dresden.de/bereiche/GSW

DIGS BB: “Fellow Award” and “Springboard to Postdoc”

The 4th “DIGS-BB Fellow Award” presentation took place on 11 June, 2015. This prize honours outstanding PhD candidates of the Dresden International Graduate School for Biomedicine and Bioengineering for excellent performance and challenging research topics, after the first year on the doctoral degree programme and upon the recommendation of the Thesis Advisory Committee. The DIGS-BB Fellow Award consists of a contract (65% of E13 pay scale) for the remainder of the PhD process. In this round, the Steering Committee presented the award to six DIGS-BB PhD candidates.

Moreover, the DIGS-BB Steering Committee reached a decision with regard to the applications for the third round of the “Springboard-to-Postdoc Programme”. This DIGS-BB programme provides a post-doc position to talented PhD candidates from the DIGS-BB after the defence of their dissertation. The supervision must be taken on by another DIGS-BB group leader or a DIGS-BB partner group or alumni group. The objective of the programme is to ensure intensive supervision and to impart new scientific and methodological expertise at the same time as securing a subsequent post-doc position in another laboratory.

More information at: www.tu-dresden.de/exzellenz/graduierenschule/digsbb



Technology Platform at the CRTD Begins its Work

Cultivating human embryonic stem cells (hESCs) and producing induced pluripotent stem cells (iPSCs) from body cells for research purposes has been possible at the CRTD since the beginning of July as part of a service-oriented technology platform. As all human cells can be generated from these cells, the platform acts at the front line for future cell therapies and also for translational medical applications such as searching for active ingredients or modelling diseases in cell culture dishes. By establishing this service institution, which is open to all CRTD's network members as well as to external researchers, a further significant component in the support of translational research in accordance with the CRTD's concept has become a reality.

www.crt-dresden.de

Funding Translational Projects at the CRTD

The CRTD promotes the initiation of novel translational projects between groups from the core institute and its network members with its calls for proposals for Seed Grants. The selection criteria for these are the level of innovation, the translational potential, the quality of the work programme, the preparatory work, the likelihood of attaining the goal that has been set, the quality of the research team and the amount of financing applied for. The objective of the funding is to support preparatory work for risk-intensive projects, which then enables applications to be submitted to various funding bodies.

More information available at: www.crt-dresden.de

Groundbreaking Ceremony for new cfaed Building

The groundbreaking ceremony for the cfaed's new building complex took place at TU Dresden on 24 August. It was performed jointly by Minister of State Prof. Georg Unland (Saxon State Ministry of Finance), Matthias Hüchelheim (Saxon State Ministry of Science and the Arts) and the Rector of TUD, Prof. Hans Müller-Steinhagen. Lab and office workplaces will be created for the microelectronics Cluster of Excellence, along with meeting rooms and seminar rooms. The new building will replace the current southern wing of the Barkhausen Building on Nöthnitzer Straße and will include a completely new laboratory building for nanoanalytics in the inner courtyard of the Barkhausen Building. The construction costs are estimated at approximately 35 million euros and are being met by the Free State of Saxony. The handover of the rooms to the users is planned for winter 2017.

www.cfaed.tu-dresden.de



About 50 Participants at cfaed Summer School

From this year, the cfaed will be co-organiser of the Dresden Microelectronics Academy (DMA). The Summer School, which has a rich tradition, will take place from 14 to 18 September and is being organised together with GLOBALFOUNDRIES and X-FAB. About 50 participants from six countries were chosen from the large number of applications.

For the first time, a day dedicated to the topic of organic electronics has also been included in the programme, which has been prepared with the collaboration of the cfaed Chair of Organic Devices, headed by Prof. Stefan Mannsfeld.

Information available at: www.dresden-microelectronics-academy.de

70th Anniversary Celebrations of the United Nations at the WTC

This year, the United Nations is celebrating its 70th anniversary – and all of Dresden's inhabitants can celebrate along with the organisation. On 23 October, there will be a big UN party in the inner courtyard of the World Trade Center (WTC), hosted by the Dresden affiliate of the UN University. The City of Dresden, Technische Universität Dresden, UNICEF Dresden and the network "Dresden für Alle" are also among the co-organisers. "Since it was founded, the United Nations has embodied, as no other organisation has, the world's hopes for peace and improved living conditions," says Prof. Reza Ardakanian, Director of the Dresden Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES) at the United Nations University. The UN University has its headquarters in Tokyo (Japan). In Germany, there are two UNU locations – Bonn and Dresden. UNU-FLORES in Dresden focuses on sustainable environmental and resource management. From 10 a.m. to 4 p.m., a varied stage and information programme has been planned, particularly aimed at children and young people. They will be able to learn about the work of the United Nations and its organisations while playing games and taking part in activities. The day will end with a ceremonial evening in the Dresden Kulturrathaus (*town hall for culture*).

More information at: www.flores.unu.de

Kind regards,

Kim-Astrid Magister, Marlene Odenbach and Birgit Holthaus