



## **Excellence Initiative Newsletter from 2 November, 2015**

Dear readers, colleagues and students,

Only seven weeks until Christmas, the year draws to a close. However, the key players of the Excellence Initiative do not show even the tiniest bit of autumn fatigue – quite the contrary. Hence, we can present you a broad variety of topics today.

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### **Future Lab on Teaching at School of Science**

What does the future of teaching hold? How can we jointly shape it in order for it to focus on research questions, to convey the principles of scientific work in a practical manner and to contribute to developing an acute awareness of problems and methods? With the “Zukunftslabor Lehre” (*Future Lab - Teaching*), the ZiLL (Centre for Interdisciplinary Learning and Teaching) in collaboration with the School of Science wants to explore how to lay the best foundations possible for a successful professional life. The event will take place on 4 November, 2015, in the Festsaal (*Banquet Hall*) on Dülferstraße. More information and registration at: [http://tu-dresden.de/exzellenz/zukunftskonzept/tud\\_structures/zill/zukunftslabor\\_matnat](http://tu-dresden.de/exzellenz/zukunftskonzept/tud_structures/zill/zukunftslabor_matnat)



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**Pressestelle**

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## **Disruptions – Irritating, Exciting, Cause for Development...**

The research project "The Principle of Disruption", headed by Open-Topic Professor Lars Koch, is holding an interdisciplinary workshop on the social effect of disruptions. The event will take place on 5 and 6 November at the Institute of German Studies at Wiener Straße 48. The particular focus will be on practices of functional differentiation. On 5 November at 6 p.m., there will be a panel discussion on the theory of functional differentiation with the cultural historian Reinhard Blänkner (Frankfurt/Oder) and the sociologists Karl-Siegbert Rehberg (Dresden) and Urs Stäheli (Hamburg).

The ERC project is also extending an invitation to a lecture here at 7 p.m. on 11 November. The subject is "Das Übergangssubjekt. Störung in Transiträumen" (*The transitional subject. Disruption in transit spaces*). Among other things, the popular "disrupters" of modern society, for example, Edward Snowden is here on focus. You can find further information at:

<http://principleofdisruption.eu/blog/2015/10/08/workshop-praktiken-funktionaler-differenzierung-irritationen-an-der-systemtheoretisch-praxeologischen-front/>

## **Winter Semester SprInt Seminars in Great Demand**

Once again, the language courses and intercultural seminars of the SprInt qualification programme for the 2015/2016 winter semester proved to be in great demand among the target group. Almost 80 participants registered for the English courses, and even more – almost 200 in total – for the SprInt intercultural seminars. The courses on how to approach the Arab world in a culturally sensitive way are enjoying particular popularity. There are still places available for the intercultural courses: <http://tu-dresden.de/sprint>

## **British Construction Expert is Visiting DRESDEN Senior Fellow**

He is one of the world's most renowned professors in the field of soil mechanics: Prof. David Muir Wood. In October, he spent three weeks as DRESDEN Senior Fellow at the Institute of Geotechnology, headed by Prof. Ivo Herle. David Muir Wood is Professor Emeritus of Civil Engineering at the University of Bristol and Professor of Geotechnical Engineering at the University of Dundee. He is also a member of the Royal Academy of Engineering. [www.tu-dresden.de/ddfellows](http://www.tu-dresden.de/ddfellows)

## **Two Trefftz Women Professors from Munich at TUD**

Two scientists from Munich will be at TU Dresden in the 2015/2016 winter semester as part of the Eleonore Trefftz Programme for Visiting Women Professors. Dr. Carolin Hauser has been a research assistant at the Department of Retention of Food Quality of the Fraunhofer Institute of Process Engineering and Packaging (IVV) in Freising since 2008. Dr. Natalia S. Pellegata is a visiting professor at the Institute for Clinical Chemistry and Laboratory Medicine at the University Hospital. She normally works at the Institute of Pathology of the Helmholtz Zentrum München. [www.tu-dresden.de/trefftz](http://www.tu-dresden.de/trefftz)



## **Physicist Helmut Schultheiß New Young Investigator**

On 29 September, Dr. Helmut Schultheiß was appointed Young Investigator by TUD rector Prof. Hans Müller-Steinhagen. Since June 2013, Dr. Helmut Schultheiß has been working in the field of magnonics at the Helmholtz Zentrum Dresden-Rossendorf, where he has been head of an Emmy Noether Junior Research Group since 2014. Prior to this, the physicist spent three years as a post-doc at the Argonne National Laboratory in the USA. The 33-year-old, who is from Bad Dürkheim, first studied physics at TU Kaiserslautern. Here, he wrote his PhD thesis on "Kohärenz und Dämpfungsverhalten von Spinwellen in magnetischen Mikrostrukturen" (Coherence and damping behaviour of spin waves in magnetic micro-structures) and was awarded his doctorate (with distinction) in 2010. From 2008 on, he has been a peer reviewer for contributors to numerous scientific journals, including "Science", "Nature Physics" and "IEEE Magnetics Letters".

[www.tu-dresden.de/younginvestigators](http://www.tu-dresden.de/younginvestigators)

## **Attention: Only Two More Open-Topic Lectures until End of 2015**

At 5 p.m. on November 4, Open Topic Professor Stefan Neukamm will be lecturing on "Mikrostrukturen, Materialien und Mathematik" (Microstructures, materials and mathematics) at the Sächsische Landesbibliothek – Staats- und Universitätsbibliothek (Saxon State and University Library - SLUB).

Then, on December 3, Prof. Martin Rohrmeier will also be speaking at the SLUB at 5 p.m. The title of his talk is "Sounds and Structures – Musikalische Strukturbildung, Kognition und Kompetenz" (Musical structural formation, cognition and competence).

[www.tu-dresden.de/ottp](http://www.tu-dresden.de/ottp)

## **Excellent Prof(s)ession on the Stage of TU Dresden**

Talkshow with Excellence at TU Dresden's "die bühne" (*the stage of the University's student theatre*): open-topic professors discuss current issues in the second season of the theatrical talkshow "Prof(s)ession". On 12 November, media scientist Prof. Lars Koch will be talking with sociologist Prof. Antonia Kupfer. The topic: "Willkommen Fremder?! Kollektive Ängste, Vorurteile und das Mitgefühl" (*Welcome, stranger?! Collective fears, prejudices and empathy*).

On 3 December, Prof. Klaus Reinhard (Zoology) and Prof. Christian Schwarke (Theology) will discuss "Unbefleckte Empfängnis – Nächstenliebe unter Bettwanzen und anderen Säugetieren" (*Immaculate conception – loving thy neighbour among bed bugs and other mammals – (or animals that suck!)*). More information at: [www.die-buehne.tu-dresden.de](http://www.die-buehne.tu-dresden.de)



## **CRTD: Prof. Zeißig Awarded Thannhauser Prize**

The „Deutsche Gesellschaft für Gastroenterologie, Verdauungs- und Stoffwechselkrankheiten“ (*German Society for Gastroenterology, Digestive and Metabolic Diseases* - DGVS) has honoured Prof. Dr. med. Sebastian Zeißig, group leader at the DFG Research Centre for Regenerative Therapies (CRTD) – TU Dresden Cluster of Excellence, and PD Dr. med. Torsten Olszak, junior doctor at the hospital of the Ludwig-Maximilians-Universität München with the Thannhauser Prize, which comes with 10,000 euros in prize money.

Their paper makes a contribution to understanding the pathogenesis of chronically inflammatory bowel diseases and can potentially serve as the basis for new therapies.

[www.crt-dresden.de](http://www.crt-dresden.de)

## **Dr. Andreas Herrmann is New Head of Research Area at CRTD**

The CRTD research area “neurodegenerative diseases” has a new head: PD Dr. Dr. Andreas Herrmann, as Prof. Alexander Storch resigned from this post to take up a new position in Rostock. PD Dr. Dr. Herrmann has already been working at the Clinic of Neurology since 2004. [www.crt-dresden.de](http://www.crt-dresden.de)

## **Bright Minds on Fast Track**

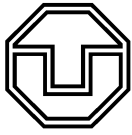
During the course of selection for the Dresden International Graduate School for Biomedicine and Bioengineering (DIGS-BB), two Master’s students from BIOTEC and CRTD were chosen to start their PhD after only one year on the Master’s programme. Bastian Joffroy from Germany (Molecular Bioengineering) and Nicola Mitwasi from Palestine (Regenerative Biology and Medicine) are the fourth and fifth students respectively from the BIOTEC/CRTD Master’s programmes to be successful in this highly competitive selection process.

Since 2014, the Master’s programmes "Molecular Bioengineering", "Nanobiophysics" (BIOTEC) and "Regenerative Biology and Medicine" (CRTD) in collaboration with the DIGS-BB offer outstanding students the opportunity to apply early for the PhD programme.

<http://tu-dresden.de/exzellenz/graduiertenschule/digsbb>

## **Akash Kumar Nominated as Fourth cfaed Professor**

At the end of September, scientist Akash Kumar from India received his certificate of appointment as Professor of Processor Design from Technische Universität Dresden. The multiprocessor systems expert is the fourth newly appointed professor at the Center for Advancing Electronics Dresden (cfaed). In the summer of 2015, Prof. Kumar already spent two months on a research visit at TU Dresden. Akash Kumar earned his PhD in electrical engineering from the National University of Singapore (NUS) jointly with Eindhoven University of Technology in the Netherlands. <https://cfaed.tu-dresden.de/pd-about>



## **Two “Highly Cited Researchers” at the cfaed**

Two cfaed scientists have earned the Thomson Reuters Media Corporation distinction of “Highly Cited Researcher 2015”. Prof. Xinliang Feng (cfaed Chair of Molecular Functional Materials) was awarded the title in two scientific fields: materials science and chemistry. Prof. Karl Leo (Institute of Applied Photophysics, IAPP) was successful in the field of materials science.

<http://highlycited.com/>

## **“Cool Award”2015 for cfaed Scientists**

The Cool Silicon e.V. (*registered association*) awarded the “Cool Award” for excellent scientific publications in the field of increasing energy efficiency for the second time at the beginning of October. David Fritsche, research assistant at the Chair of Circuit Design and Network Theory at TU Dresden, was awarded first place. Co-authors were Dr. Corrado Carta and Prof. Frank Ellinger. The paper emerged from work in the cfaed research path Highly Adaptive Energy-Efficient Computing (HAEC). Second place went to Dr. Sebastian Höppner (Chair of Highly-Parallel VLSI-Systems and Neuromicroelectronics). His paper also developed from his work at cfaed.

<https://cfaed.tu-dresden.de/press-releases-201/cool-award-2015>

*Responsible for publication: Marlene Odenbach and Kim-Astrid Magister*

*Edited by Birgit Holthaus*