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**SERVICE**

[Relaxation at CEPRIS Center for Preventive Intervention Studies](#)

*Relaxed and self-confident in stressful situations: Learn at one weekend how to escape the stress trap.*

For some time, the CEPRIS - Center for Preventive Intervention Studies has been offering compact weekend courses for effective stress management. Due to the high demand, the CEPRIS now offers additional courses:

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**AWARDS**

Great success! Five of the world's Highly Cited Researchers come from the School of Science

Five of more than 3.000 of the world's Highly Cited and most influential researchers work at the School of Science at TU Dresden! One of them is listed even twice. The recently published list of Highly Cited Researchers 2016 by *Clarivate Analytics* marks a great success for TU Dresden and the School of Science in particular. Three researchers are designated repeatedly: **Prof. Dr. Karl Leo** (Department of Physics) in Material Sciences, **Prof. Dr. Jürgen Rehm** (2<sup>nd</sup> affiliation Department of Psychology) in General Social Sciences and **Prof. Dr. Hans-Ulrich Wittchen** (Department of Psychology) in the field of Psychiatry/Psychology. **Prof. Dr. Stefan Kaskel** (Department of Chemistry and Food Chemistry) is designated in the field of Material Sciences for the first time. **Prof. Dr. Xinliang Feng** (Department of Chemistry and Food Chemistry), who was already on the list in 2014 and 2015 obtained two designations for TU Dresden - in the fields Chemistry and Material Sciences in 2016. Moreover, **Prof. Dr. Karsten Kalbitz** (Department of Forest Sciences) is listed for TU Dresden in the field of Agricultural Sciences. This year's list consists of 3.265 researchers, 187 coming from Germany. The basis for this evaluation are publications in 22 broad fields of science, social sciences and medicine from the years 2004 to 2014. With seven designations, TU Dresden occupies a top ranking in Germany, only just behind TU Munich and the University of Heidelberg. This excellent result shows once more the growing strength in research and the national and international impact of the science location TU Dresden.

Chemist Dr. Maria Roslova received Maria Reiche support of TU Dresden

The chemist Dr. Maria Roslova received an 18-months full grant of the Maria Reiche support programme of TU Dresden. Thus, the young Russian scientist is one of three awarded early-career female scientists at TU Dresden who are supported in their academic career with the Maria Reiche programme.

Dr. Roslova starts her grant at the Chair of Inorganic Chemistry II on 1st January 2017. The funding period reaches over 18 month with an option of prolongation over six months in case of a positive evaluation. In this time, Dr. Roslova will work on the application of a third-party funding project with the title „Microwave-assisted polyol synthesis: towards ternary compounds“. The young scientist studied for her PhD at the Lomonossov University Moscow between 2010 and 2014 on a project entitled „Synthesis, crystal structure and properties of oxygen-free superconducting layered iron pnictides and chalcogenides“. After she completed her PhD, Dr. Roslova worked as a postdoc at TU Dresden in the group of Prof. Dr. Ruck (Chair of Inorganic Chemistry II) and therein discovered her interest for the field of microwave-assisted synthesis.

Dr. Hans Riegel Award for student term paper at the IKTP

Senior school student Tim Hebenstreit received the Dr. Hans Riegel Award for his term paper titled "Untersuchung der Eigenschaften des W- und Z-Boson am ATLAS Detektor". The student who is attending the 11<sup>th</sup> grade at Luisenstift school in Radebeul wrote his term paper in the school year 2015/16 under the

**Dear members at the School of Science,**

*I wish you and your families happy holidays and a happy New Year by citing a quick prayer made by the pastor Hermann Josef Kappen in 1883:*

*"Herr, setze dem Überfluss Grenzen und lasse die Grenzen überflüssig werden.*

*Lasse die Leute kein falsches Geld machen, aber auch das Geld keine falschen Leute.*

*Nimm den Ehefrauen ihr letztes Wort und erinnere die Ehemänner an ihr erstes.*

*Schenke unseren Freunden mehr Wahrheit und der Wahrheit mehr Freunde.*

*Bessere solche Beamte, Geschäfts- und Arbeitsleute, die wohl tätig, aber nicht wohlätig sind.*

*Gib den Regierenden ein besseres Deutsch und den Deutschen eine bessere Regierung.*

*Herr, Sorge dafür, dass wir alle in den Himmel kommen. Es muss ja nicht gleich sein...*

**With warm regards, your  
Clemens Kirschbaum**

assistance of Dr. Felix Socher from the Institute of Nuclear and Particle Physics (IKTP). In his work, Tim Hebenstreit analysed the characteristics of elementary particles. For the evaluation of experimental data, Tim made himself familiar with the fundamentals of the computer language Python and wrote a programme with the help of which he could analyse the decay products of particle collisions. He was thus able to consider 12.000 collisions for his work. The award ceremony took place at the Technischen Sammlungen Dresden on 9<sup>th</sup> December.

The Dr. Hans Riegel Awards recognize pre-scientific works at school. In cooperation with 17 German and Austrian universities, the award is supposed to discover young talents in the transition from school to university, to promote MINT subjects and to establish networks between regional educational institutions.

## RESEARCH

### Polish mathematician Dr. Kamil Kaleta starts Humboldt Fellowship at TU Dresden

The Alexander von Humboldt Foundation grants approximately 500 Humboldt Research Fellowships for outstanding postdoctoral researchers every year. Dr. Kamil Kaleta from Poland received one of the prestigious fellowships in 2015, which he is now spending at TU Dresden for twelve months. In the group of Prof. René Schilling (Chair of Probability), he is going to examine the asymptotic and spectral properties of the semigroups generated by non-local Schrödinger operators. He therefore works at an interface with physics, since most of his research problems are motivated by applications in modern relativistic quantum mechanics and statistical physics. Dr. Kaleta chose TU Dresden since the probability group headed by Prof. Schilling is one of the leading teams working at the interface of stochastic processes with jumps and the corresponding non-local (pseudo-differential) operators. Joining forces will help both sides to cross-fertilize, combine new techniques and develop joint ideas – which certainly will open up alleys for future research and strengthen the collaboration between TU Dresden and Wrocław University of Technology.

## TEACHING METHOD OF THE MONTH

### E-Assessment for more practice possibilities and feedback at the School of Science

According to a study by the Media Centre, electronic tests are among those digitally supported scenarios that are applied most commonly by teachers at the School of Science. Students most frequently use so-called self-assessment tests for practicing and preparation for the exams. Students are thus able to do the tests independent of time and place and to obtain immediate feedback due to an automatic evaluation of their performance. Teachers have the possibility to create additional practice material without fearing an increased time and effort in corrections or assistance. With the connection of the test tool ONYX to the Algebra system MAXIMA, there are various high quality technical possibilities. It is even possible to consider and evaluate consequent errors automatically. Meanwhile in Saxony, they have founded a special work group „Mathematik/Physik + E-Learning“, where people work at the compilation of a common task pool for mathematics (more information at <https://www.hds.uni-leipzig.de/index.php?id=fak-tutorienarbeit100>).

You can learn more on the use of the test tool ONYX in the regular training opportunities of the Media Centre. Whenever needed, please contact our E-Learning-Support at [elarning@tu-dresden.de](mailto:elarning@tu-dresden.de) or tel. - 463-34942.

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