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NETWORKING RESEARCH

Old and New Naturopathy: Congress of Ethnopharmacology →

Günter Vollmer, Professor of Molecular Cell Physiology and Endocrinology, invited more than 150 scientists from 33 countries to the 19th International Congress of the International Society for Ethnopharmacology (ISE) at the TU Dresden. From 12th to 14th June, researchers exchanged their knowledge about traditional remedy and nutritional components with regard to their medical efficacy. Ethnopharmacology (also ethnobotany), an interdisciplinary field of botany, pharmacology, chemistry, pharmacy, anthropology and others, deals with the medical use of plants in traditional societies all over the world. As for Prof. Vollmer, the Friday motto "Bridging continents" was particularly close to his heart. One focus was on Africa, where traditional medicine plays an important role in everyday life. "However, the great importance of traditional medicine for health in Africa is clearly disproportionate to its scientific visibility worldwide," says Prof. Vollmer. "With this conference, we want to contribute to bridging this discrepancy."



Ethnopharmacology - Bridging cultures and continents

Learning from the Best in Lindau →

Dr. Helena Reichlova, postdoc at the Institute of Solid State and Materials Physics, will participate in the Lindau Nobel Laureate Meeting from 30th June to 5th July. 39 Nobel Laureates will hold lectures and exchange ideas on this year's core topics cosmology, laser physics and gravitational waves. Dr. Helena Reichlova is one of 580 young researchers from 89 countries who were invited to the conference via a selection procedure. The 33-year-old Czech researches spintronics, a field of nanoelectronics, under Prof. Sebastian Goennenwein. She will present her research topic in a master class under Physics Nobel Laureate Albert Fert. Only ten of the 580 participants get selected for such a presentation. "Perhaps I will also get valuable inspiration for my topic or find possible cooperation partners. It is really a great opportunity to gather a lot of scientific input and learn from the best," said Dr Reichlova. She will share her experiences in Lindau via the Twitter channel of the School of Science:

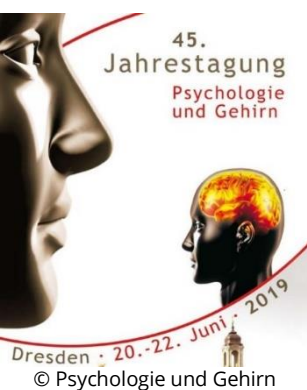


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https://twitter.com/TUD_Science

45th Annual Conference "Psychology and Brain" in Dresden

Prof. Clemens Kirschbaum, biopsychologist and Chairperson of the School of Science, invited to the conference of the Psychobiology and Neuropsychology Section of the German Psychological Society and the German Society of Psychophysiology and its Application (DGPA) e. V. at the Dresden Hygiene Museum. More than 500 psychologists from various disciplines took part in the three-day conference with over 420 contributions from bio- and neuropsychology. "What I am personally very pleased about is the fact that our young scientists have continued to significantly contribute to the conference programme this year," praised Prof. Kirschbaum. "In addition to organising two pre-conference workshops, they suggested John Ioannidis from Stanford for a keynote lecture. How nice that we succeeded in bringing one of the most eminent fighters for the replicability of research results to Dresden!" More information about the conference on Twitter: #pug2019.



Prof. Hans-Conrad zur Loye from the University of South Carolina at the TU Dresden

Chemistry Professor Hans-Conrad zur Loye from the University of South Carolina visited the TU Dresden from 6th to 11th May. The stay of the renowned specialist for crystal growing of new materials, as well as the exchange with the TUD Chair of Inorganic Chemistry II – among them **Prof. Michael Ruck**, **Prof. Thomas Doert** and **Dr. Philipp Schlender** – and with the IFW and HZDR stimulated various co-operations. "In the recent years, Prof. zur Loye's group has published a number of scientific articles on the synthesis and crystal growth of new oxide materials," explains Dr. Schlender. "The Ruck working group is also researching on the synthesis and characterisation of novel oxidic materials. The adaptation of the synthesis methods established by Prof. zur Loye for our target compounds therefore offers an ideal basis for further co-operation. In the coming months, we will jointly investigate the synthesis of rare earth oxodolafossites in monocrystalline form." Prof. Thorsten Stumpf from the HZDR adds ambitions in the field of actinide chemistry: "Measurements on the magnetical behaviour of uranium complexes will take place in the USA, while Prof. zur Loye will send staff members to us to produce and characterise compounds with transuranium elements."

Notifications

New Network "Mental Health Disorders": In June, representatives of the Faculty of Medicine and the Faculty of Psychology, the Clinics and Polyclinics for Psychiatry and Psychotherapy as well as Child and Adolescent Psychiatry of the University Hospital Dresden and employees of the renowned Institute of Psychiatry, Psychology and Neuroscience (IoPPN) at King's College London met for a kick-off workshop for a joint network on "Mental Health Disorders" at the University Hospital Dresden.

New Findings from Stress Research in Behavioural Therapy Week: This year's behavioural therapy week, organised in co-operation with the Chair of Behavioural Psychotherapy at TU Dresden, brought together new findings from stress re-search. Distinctive developments of stress phenomena in society make new research approaches necessary – like that of Susann Schmiedgen of the University Hospital Carl Gustav Carus Dresden. "Her publications on hair cortisol analysis determine the discussions among experts," said Prof. Jürgen Hoyer of the Institute for Clinical Psychology and Psychotherapy at TU Dresden.

98th Workshop on General Algebra at TU Dresden: From 21th to 23rd June, the 98th AAA Conference (Workshop on General Algebra, German: Arbeitstagung Allgemeine Algebra) took place at the TU Dresden. 100 participants discussed the topics universal algebra, lattices, logic, classical algebra and applications, with five plenary talks and more than 50 contributed talks in three parallel sessions.

Correction: Hygiene Museum Exhibition "Of Plants and People" with Contributions by Bernd Schulz

In the Newsletter 5-2019, we reported on the Hygiene Museum exhibition "Of Plants and People" with contributions from TUD biologists. Beside Dr. Thea Lautenschläger we introduced Bernd Schulz, whose mention and contribution to the exhibition as well as to science were inappropriately underrepresented in the article: After completing his professional training as a forester, he studied forestry and has been employed as a research and teaching engineer at the TU Dresden since 1988 and at the Institute of Botany since 1993. In addition to internships in anatomy and plant morphology, wood knowledge in winter and biological drawing, his expertise has resulted in numerous publications - including the book "Gehölzbestimmung im Winter" ("Wood Determination in Winter"), which was awarded two book prizes and is now standing in the Hygiene Museum in a series of works on botany history. In addition to the corresponding studies and drawings, Schulz designed a picture key for the exhibition that illustrates the principle of plant identification. With his experience he also supported the exhibition organiser as a consultant – contributing knowledge of theory and practice from decades at the interface of "plants and people".



Bernd Schulz
**Gehölzbestimmung
im Winter**
mit Knospen und
Zweigen

His Book „Gehölzbestimmung im Winter“ is one contribution by Bernd Schulz for the exhibition in the Hygiene Museum. © Ulmer Verlag / Bernd Schulz

SOCIAL MEDIA

TUD Chemist on Sunscreen

How does sunscreen work and what is the sun protection factor? How much sunscreen should be applied to protect from sunburn? And are the ingredients of sunscreens harmless to health at all? Dr. Anne Hellwig from the Chair of Food Chemistry at TU Dresden answers in an interview.

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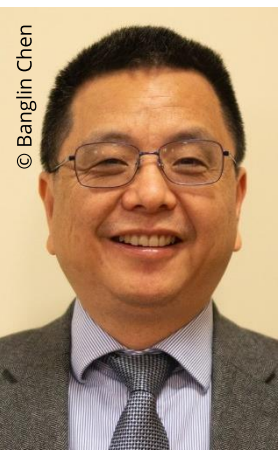


**Was bedeutet der
Lichtschutzfaktor?**

Tag des
Sonnenschutzes

EXCELLENT

Humboldt Research Award Winner Banglin Chen (USA) Comes to TU Dresden



Prof. Banglin Chen from the University of Texas in San Antonio (UTSA), an internationally leading chemist and pioneer in the field of metal-organic frameworks (MOFs), was awarded the Humboldt Research Award this year. He was nominated by TUD chemist Prof. Stefan Kaskel, who hosted Prof. Chen's stay at TU Dresden in June. Organometallic framework compounds (MOFs) are a promising class of materials that are particularly suitable for the storage, separation and purification of gases and catalytic applications due to their porosity. Prof. Kaskel is an expert in this field of research too and appreciated the top-class support by Prof. Chen. The chemist is one of the most cited scientists in the world and in 2011 was among the 100 best chemists of the last decade in the Thomson Reuters ranking. From 1st to 19th June, Chen and Kaskel worked in Dresden on flexible MOFs for the storage and separation of gases and for energy conversion.

Notifications

QS World University Ranking 2020: Top Results for the TUD →: Since 2014, the TU Dresden has improved by 83 places in the QS World University Ranking, by 12 places in the previous year alone, and now is in the 179th place. In Germany, it ranks 11th in the top group.

Psychologists Honoured with Werner Straub Prize: Dr. Gesine Wieder and Dr. Johanna Petzoldt were awarded the Werner Straub Prize by the Faculty of Psychology for their dissertations. Among others, the prize is awarded to doctoral students who complete their studies with "summa cum laude".

EVENTS



Physics Nobel Laureate Takaaki Kajita at TU Dresden on 3.7. →

On 3rd July at 7 p.m., Physics Nobel Laureate Takaaki Kajita will share ground-breaking and fascinating insights into our cosmos with the audience in the TU Dresden's central lecture hall in his lecture: "Oscillating Neutrinos". Kajita has shown that neutrinos have mass. In a zinc mine, 1,000 metres underground, he traced the neutrinos in 50,000 tons of ultrapure water. Here, he analysed the particles caught in the tank – and found the ratio of the various kinds of neutrinos to diverge from calculations. His explanation: The muon neutrinos expected must have had turned into tau neutrinos; this neutrino oscillation could only be possible for particles having mass. It queried the standard model of particle physics and opened up doors to find solutions for conflicts in physical theories. This made

the Nobel Prize committee award him jointly with Arthur McDonald the Nobel Prize in Physics in 2015. We warmly invite any interested parties to join the lecture. Please register at: <https://tu-dresden.de/mn/nobel>.

YOUTH

"Orientation Platform Research & Practice" →

The new "Orientation Platform Research & Practice" (German abbrev. OFP) offers vocational orientation during the studies of natural sciences, mathematics or psychology. The project has been in existence at the School of Science since May 2019 with the aim of providing students with early insights into subject-related research projects and everyday working life. Starting in the winter semester 2019/20, events will be offered in co-operation with external practice partners and alumni to provide orientation knowledge about possible fields of activity. For questions and suggestions, please contact Christina Schulz: christina.schulz1@tu-dresden.de. The "Orientation Platform Research & Practice" (OFP) is funded by the German Federal Government and the State of Saxony as part of the Higher Education Pact.

Future Lab „Fake Science?!“ Meets Scientific Scepticism



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„FAKE SCIENCE?! Science between Social Responsibility and Scepticism“

**on 11th July, 9 a.m. to 1 p.m.
Conference building at the Institute of Wood Technology
(Zellescher Weg 24)**

The transfer of knowledge to the public domain faces new challenges in these times of fake news, mistrust of experts and conspiracy theories. Thanks to Google and social media, the modern discourse of scientific scepticism is rapidly gathering momentum and is often dominated by self-appointed experts and "perceived knowledge". How can scientific communication succeed in a changing society? And what exactly are the tasks of science in the public sphere?

The Future Lab, which is open to all members of TUD and the DRESDEN-concept partners, will seek answers. Register at: <http://tu-dresden.de/fake-science>

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Editing: Nicole Gierig, Susann Lederer – Public Relations

Contact: Nicole.Gierig@tu-dresden.de, Tel. 0351 463 39504; Susann.Lederer@tu-dresden.de, Tel. 0351 463 39501