

Pressemitteilung**Technische Universität Dresden****Kim-Astrid Magister**

14.09.2016

<http://idw-online.de/de/news659068>Buntes aus der Wissenschaft
Physik / Astronomie, Werkstoffwissenschaften
überregional**The 'Knight of Graphene' Visits TU Dresden: Nobel Prize Laureate Sir Konstantin Novoselov at cfaed**

On September 16, Nobel Prize Laureate Professor Sir Konstantin S. Novoselov FRS (University of Manchester) will present his lecture 'Graphene: Materials in the Flatland' at TU Dresden. The talk will be given within cfaed's Distinguished Lecture Series which invites top scientists to Dresden.

Professor Sir Novoselov is one of the 'inventors' of the 'wonder material' graphene. This truly single-layered carbon allotrope was first discovered in 2004 by Konstantin Novoselov and Andre Geim. After the isolation of monolayer graphene and characterizing it, the two scientists published a paper about the vast potential of the material's properties. In 2010, Novoselov and Geim received the Nobel Prize in Physics "... for groundbreaking experiments regarding the two-dimensional material graphene". Graphene consists of a single layer of carbon atoms that are bonded together in a hexagonal pattern. The material is ultra-light and immensely strong at the same time, conducts both electricity and heat better than copper and can be utilized in numerous disciplines.

Sir Novoselov has published more than 250 peer-reviewed research papers and was awarded numerous prizes. He is one of the most highly cited researchers and was also named among the 17 hottest researchers world-wide which are "... individuals who have published the greatest number of hot papers during 2012-2013". He is Langworthy Professor of Physics and the Royal Society Research Professor at The University of Manchester in the UK. In 2012 Professor Novoselov was honored with Knight Bachelor for services to science which is one of the most ancient title of honor in the United Kingdom.

Sir Novoselov was invited to Dresden by Professor Xinliang Feng. He holds the cfaed Strategic Chair for Molecular Functional Materials which is intensively dedicated to 2D materials research. Prof. Feng: "It's a great honor to welcome Prof. Sir Novoselov here at TU Dresden! As our Chair is investigating how to transform the great potential of graphene into viable applications, we rely every day on the huge achievements Prof. Sir Novoselov brought for our field." Last week scientists around Professor Feng officially launched the ESF-supported 'Graphene Center Dresden' (GraphD) and announced the initiation of a 2.5D Materials Research Path within cfaed for the next phase of the Cluster within the German Excellence Strategy.

With the Distinguished Lecture Series cfaed has set up a high-level series of talks where world-known scientists, including Nobel Prize laureates and Nobel Prize nominees present their research results. The series is open to the public. Everybody is welcome.

Prof. Sir Konstantin S. Novoselov FRS: 'Graphene: Materials in the Flatland'
Friday, 16 September 2016, 16:00
TU Dresden, Dülferaal, access via Dülferstraße 1, 01069 Dresden, 1st floor,

The lecture will be held in English. The entrance is free of charge and open to all.

Media inquiries:

Prof. Xinliang Feng

cfaed Chair for Molecular Functional Materials

Phone: +49 (0) 351 463-43251

E-mail: xinliang.feng@tu-dresden.de

Matthias Hahndorf

Center for Advancing Electronics Dresden (cfaed)

Communications Officer

Phone: +49 (0) 351 463-42847

E-mail: matthias.hahndorf@tu-dresden.de

cfaed

cfaed is a microelectronics research cluster of the German Excellence Initiative. It comprises 11 cooperating institutes in Saxony. About 300 scientists from more than 20 countries investigate completely new technologies for electronic information processing. These technologies are inspired by innovative materials such as silicon nanowires, carbon nanotubes or polymers or based on completely new concepts such as the chemical chip or circuit fabrication methods by self-assembling structures e.g., DNA-Origami. The orchestration of these new devices into heterogeneous information processing systems with focus on their resilience and energy-efficiency is also part of cfaed's research program which comprises nine different research paths.

URL zur Pressemitteilung:

<https://www.cfaed.tu-dresden.de/cfaed-distinguished-lecture-series-70/materials-in-the-flatland> for further information

URL zur Pressemitteilung: <http://www.cfaed.tu-dresden.de>