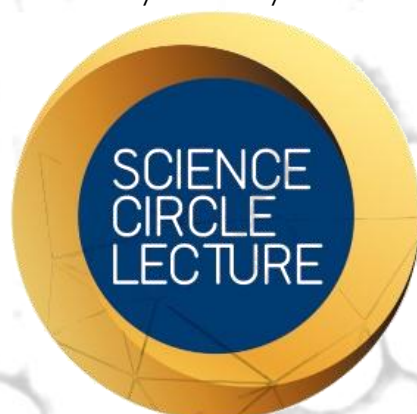


The Consulate General of the Federal Republic of Germany in Mumbai  
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cordially invite you to the



## Nanoparticles: Risks and Perspectives by

**Prof. Dr. Eckart Rühl**

Head of the unit Physical and Theoretical Chemistry,  
under Department of Biology, Chemistry and Pharmacy at  
Freie Universität Berlin, Germany

Monday, 29th October 2018, 05.00 pm

Library, Goethe- Institut, Max Mueller Bhavan, Kala Ghoda, Mumbai 400 001

To attend please register on:

[http://eepurl.com/dKzp\\_M](http://eepurl.com/dKzp_M)

### Prof. Dr. Eckart Rühl

Prof. Dr. Eckart Rühl is Professor of Physical Chemistry at Freie Universität Berlin, Germany. He is head of the unit "Physical and Theoretical Chemistry", which is part of the Department of Biology, Chemistry and Pharmacy. His research is focused on spectroscopy covering the areas of fundamental research on the structure and dynamics of matter as well as applications to life sciences, materials research and environmental science.

He has headed the Collaborative Research Center "Nanocarriers: Architecture, Transport, and Topical Applications of Drugs for Therapeutic Applications" for five years and the Training Network "Nanocarriers". Prof. Rühl is active in several international collaborations, among them the scientific coordination of the "German-Russian Interdisciplinary Science Center" and the "Russian-German Laboratory at the Synchrotron Radiation Facility BESSY II" in Berlin.

### Nanoparticles: Risks and Perspectives

Nanoparticles have gained substantial importance even in everyday life. They are promising building blocks for modern materials, where their size-dependent electronic, optical, and magnetic properties are exploited. Their applications reach from technology to medical use in therapy as well as diagnostics. However, at the same time possible hazards of nanoparticles affecting human health need to be considered as well.

The Science Circle Lecture 'Nanoparticles: Risks and Perspectives' will address important issues of research on modern nanoparticles including details how they are prepared and functionalized and, on their size-dependent properties. Results on the effects of penetration of nanoparticles on cells and human skin will be presented. In addition, the perspectives and risks of the use of nanoparticles in medical research, especially for dermal drug delivery will be discussed.