Fakultät für Chemie und Biochemie
Interdisciplinary Lecture Series
Gemeinsames Kolloquium – Wintersemester 2012/13

Thursday, 24.01.2013
17:15 hrs, Lecture Hall HNC 30

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Carbon – an "inorganic" element

Abstract: The element carbon occurs in three allotropes representing its three hybridization states. The vast number of organic molecules that will not be considered here occurs from this multiplicity in the same way as the multiple nanostructured variants of the element often misinterpreted as additional allotrope forms.

Fullerenes, nanotubes and graphene are prominent lead structures accompanied by a large number of mixed species and curiosities. The presentation will illustrate some concepts of nanostructuring and discuss the basic electronic and chemical properties. Selected chemical examples from the many potential applications of nanostructured carbons will be discussed that are based upon surface functional groups terminating the carbon atom network.

Gäste sind herzlich willkommen – Guests are most welcome!

GSCB                      Dekan                             GDCh