

GDCh- und Chemisches Kolloquium

Der GDCh-Ortsverband Oldenburg und das Institut für Reine und Angewandte Chemie der Carl von Ossietzky Universität Oldenburg laden zu einem Vortrag

von Prof. Dr. Y. Apeloig
Technion Haifa, Israel

zum Thema Recent Studies of Low-Coordination Silicon Compounds: Experiment and Theory

herzlich ein.

Termin: **Mittwoch, den 20.02.2008 17 Uhr c.t.**
Großer Hörsaal der Naturwissenschaften, W3-1-161,
Carl-von-Ossietzky-Straße 9-11

Einladender Prof. Dr. Thomas Müller

Silicon is the closest congener of carbon. Yet the fundamental properties of many silicon and carbon compounds are very different. This is especially evident for low-coordination compounds, such as multiply-bonded silicon compounds or silylenes whose chemistry has begun to be unravelled only in the last two decades, following the synthesis of the first stable compounds of these types. Quantum chemical calculations made numerous crucial contributions to this field and in many cases theoretical predictions preceded and directed experimental work.

In this lecture I will discuss some of the recent work of my research group on low-coordination silicon compounds, both experimental and theoretical emphasizing the role of theory in predicting and guiding experiment. Some of the intriguing differences between silicon and carbon compounds will be discussed, demonstrating how the synergism between theory and experiment can be used to discover new chemistry.

GDCh-Ortsverband Oldenburg
Der Vorsitzende
Prof. Dr. Thorsten Klüner

Institut für Reine und Angewandte Chemie
Der Direktor
Prof. Dr. Mathias Wickleder