



Einladung zum Vortrag von

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**Prof. Frieder Jäkle**  
Rutgers University Newark, USA

**„Borane Lewis Acids: From Molecules to Materials”**

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Electron-deficient organoboranes have long been studied as reagents and catalysts in organic synthesis. More recently they have also garnered much interest as probes and sensors for anions, and in the development of optoelectronic materials. Meanwhile, organoborane polymers have emerged as an important class of functional materials with applications ranging from supported reagents and catalysts to the detection of biologically relevant species, and self-healing materials.

The first part of this presentation will focus on our recent work on ferrocene-based planar chiral Lewis acids and Lewis pairs. I will then describe some new hybrid materials that feature highly electron-deficient air-stable organoborane moieties; their electronic structure investigation and potential in optoelectronics and anion detection will be discussed. Finally, the development of Lewis acidic borane polymers, their self-assembly and potential applications will be introduced.

Mittwoch, 24. Mai 2017, 15:00 Uhr  
Kleiner Hörsaal III  
Währinger Straße 38, 1090 Wien

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