

## EINLADUNG

zum Vortrag  
von

**Prof. Dr. Barbara Wyslouzil**  
The Ohio State University, USA  
Department of Chemistry and Biochemistry

### **CO<sub>2</sub> condensation onto alkanes: Unconventional cases of heterogeneous nucleation**

am

**Dienstag, 9. April 2019, um 17:30 Uhr**

**Ort:** Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,  
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

*Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals*

#### **Abstract**

In the usual picture of heterogeneous nucleation a liquid condenses onto an immiscible solid particle. Here, we examine heterogeneous nucleation of CO<sub>2</sub> onto particles comprised of *n*-pentane or *n*-hexane under conditions where CO<sub>2</sub> should be a solid and the seed particles may be liquid or solid. Although CO<sub>2</sub> almost always condensed under our experimental conditions, these experiments do not easily fit into the framework of standard heterogeneous nucleation experiments. Rather they explore unconventional regimes of heterogeneous nucleation in which the state of the seed particle may both affect whether deposition can proceed, and, in turn, be influenced by the presence of the condensing species.

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#### **CHEMISCH-PHYSIKALISCHE GESELLSCHAFT**

c/o Universität Wien, Fakultät für Physik, 1090 Wien, Strudlhofgasse 4/Boltzmannngasse 5, Austria  
Generalsekretär: Christl Langstadlinger  
Tel.: +43-(0)1-4277/51108 - Mobil: 0664-60277 51108 - E-Mail: christl.langstadlinger@univie.ac.at  
ZVR-Zahl: 513907440 - <http://www.cpg.univie.ac.at>  
Konto: Bank Austria - IBAN: AT22 1100 0086 4440 8000 - BIC: BKAUATWW