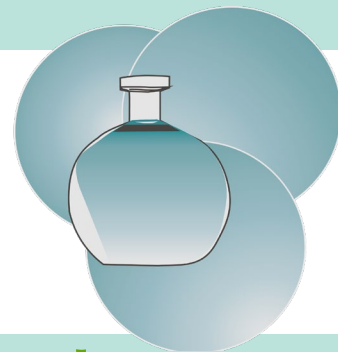


Fakultät für Naturwissenschaften Institut für Chemie



lädt ein

gemeinsam mit der Gesellschaft
Deutscher Chemiker
zum

Vortrag
von Herrn

**Prof. Kenton
Whitmire**

Rice University,
Houston, Texas, USA

GDCh

Gesellschaft
Deutscher Chemiker

“Organometallic Synthesis as a gateway to Advanced Materials: The case of the Metal Pnictides”

am: 12. Oktober 2023

um: 16:00 Uhr

WO: im Raum 1/232

Die kleine Kaffeerunde vor dem Vortrag beginnt
um 15:30 Uhr im Raum 1/232.

Das Mitbringen von eigenen Trinkgefäßen ist
erwünscht.

Gäste sind herzlich willkommen!

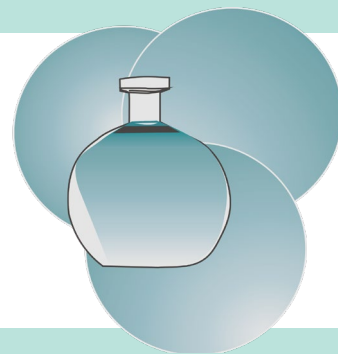


TECHNISCHE UNIVERSITÄT
IN DER KULTURHAUPTSTADT EUROPAS
CHEMNITZ

Prof. Dr. Michael Sommer

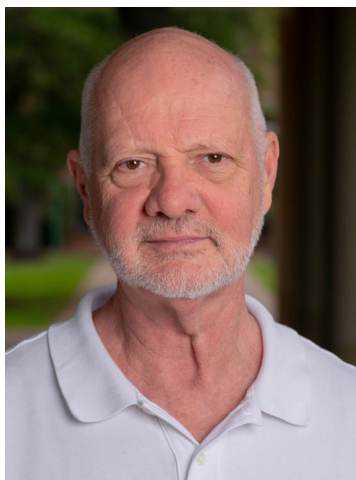
Telefon: 0371 / 531 32507

E-Mail: michael.sommer@chemie.tu-chemnitz.de



**Prof. Kenton
Whitmire**

Rice University,
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**“Organometallic Synthesis as a gateway to
Advanced Materials: The case of the Metal
Pnictides“**

Volatile inorganic and organometallic compounds have been utilized for decades as precursors in metal organic chemical vapor deposition, but the focus has been on materials where a single product is obtained. In approaching their use for the transition metal pnictides, however, there is a far larger range of stoichiometries and crystal formations possible. This talk will examine the synthetic challenge in preparing as well as the use of main group element-transition metal cluster compounds as highly selective precursors to selected homo- and heterometallic pnictide phases. The ability to produce and study these phase pure thin films as water splitting catalysts has facilitated a more detailed comparison of the relative properties of the different stoichiometries. Possible future extensions of this work to other target precursors and phases will be presented.