

## UniSysCat Special Lecture

Prof. Dr. Eric Rivard

University of Alberta, Edmonton

Start Time: Tuesday, May 28, 2019 05:15 pm

End Time: Tuesday, May 28, 2019 06:45 pm

Chemistry Building, C 264

Technische Universität Berlin, Straße des 17. Juni 115, 10623 Berlin

### New Strategies to Stabilize Silicon and Germanium in Low Oxidation States

Prof. Dr. Eric Rivard

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Department of Chemistry

In this presentation, a series of sterically hindered N-heterocyclic olefin (NHO) ligands and their anionic counterparts will be discussed. Focus will be given to the preparation of a stable divinylgermylene ( $R_2Ge$ ) featuring anionic NHO ligands, and the very recent synthesis of rare two-coordinate acyclic silylenes ( $R_2Si$ ) and their ability to activate small molecules. Time permitting, the bulkiest NHC to date will be described, as well as the use of intramolecular Frustrated Lewis Pair ligands to coordinate reactive main group hydrides ( $EH_2$ ; E = group 14 element).

Prof. Dr. Matthias Driess

Organizer