

UniSysCat Special Lecture

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University of California, San Diego

Start Time: Friday, May 31, 2019 04:00 pm

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C264

Technische Universität Berlin

Unsaturated Metal Isocyanides: Molecules to Materials

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Recent results concerning the construction and reactivity of low-coordinate transition-metal complexes featuring sterically encumbering *m*-terphenyl isocyanide ligands are presented. Given the isolobal relationship between organoisocyanides and carbon monoxide, these complexes serve as mimics of the unsaturated binary metal carbonyls. The latter have traditionally been studied in either the gas phase or by matrix-isolation techniques and, consequently, their condensed-phase reactivity patterns are largely unknown. Specifically addressed will be synthetic studies that have delivered homoleptic and heteroleptic isocyanide complexes that mimic several unsaturated binary carbonyls for the middle and late transition metals. The conversion of these reactive complexes into network materials is also discussed.

Prof. Driess

Organizer