

Title “Super-Oxidized” Iron Nitrido & “Super-Reduced” Iron Nitrosyl Complexes in tris-Carbene Coordination Spheres
–and How Iron Really Feels About it

Speaker Prof. Karsten Meyer
Chair of Inorganic and General Chemistry, Friedrich-Alexander-University of Erlangen-Nürnberg (FAU), Germany



Date 1:00 PM(JST), Wednesday, September 29th, 2022

Venue I²CNER hall, I²CNER Bldg.1, Ito campus, Kyushu University

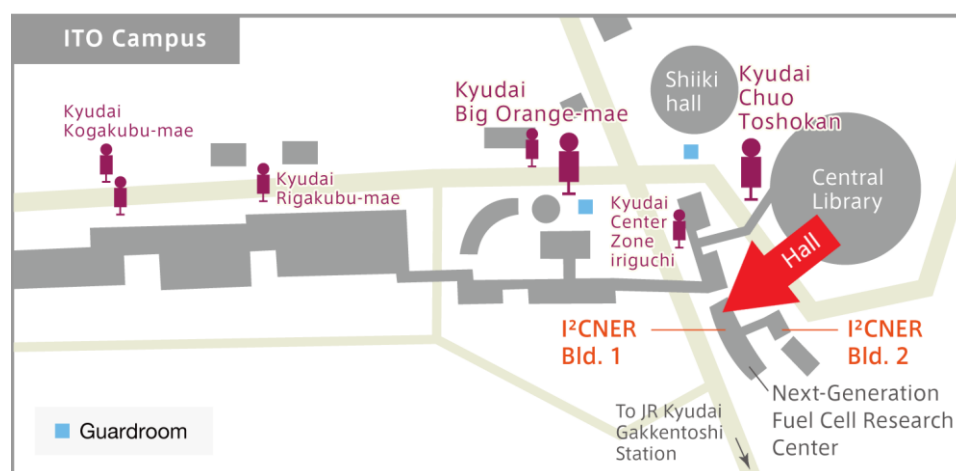
**This seminar will be held on-site only. Please note there are no online or hybrid sessions.*

Abstract

In this seminar, we will present our work on the synthesis and reactivity of metal nitrido and nitrosyl complexes. First, we report our studies on high-valent Fe(IV, V, VI and VII) nitrido complexes. Subsequently, we address the question to what extent the complexes' electronic and structural properties change when – formally – atomic oxygen is added to the nitrido ligand; thus, transforming a high-valent metal nitrido to a low-valent metal nitrosyl complex.

About the Speaker

Karsten Meyer studied chemistry (October 1989 – 1994) at the Ruhr-University of Bochum (Germany) and received his Diploma in May 1995. Starting in summer 1995, he performed his PhD thesis work under the direction of Professor Karl Wieghardt at the Max-Planck-Institute in Mülheim / Ruhr (Germany) and received his Ph.D. (Dr. rer. nat, summa cum laude) in January 1998. With a DFG postdoctoral fellowship, Karsten proceeded to gain research experience in the laboratory of Professor Christopher Cummins at the Massachusetts Institute of Technology (1998 – 2000, MIT, Cambridge, MA, USA). In January 2001, he was appointed to the faculty of the University of California, San Diego (UCSD) as an Assistant Professor and was named an Alfred P. Sloan Fellow in 2004. In 2006, he accepted an offer (C4/W3) to be the Chair of the Institute of Inorganic & General Chemistry at the Friedrich-Alexander-University of Erlangen-Nürnberg (FAU), Germany.



Registration <https://forms.office.com/r/B52BHvF2Ag>

Host Prof. Seiji Ogo

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