

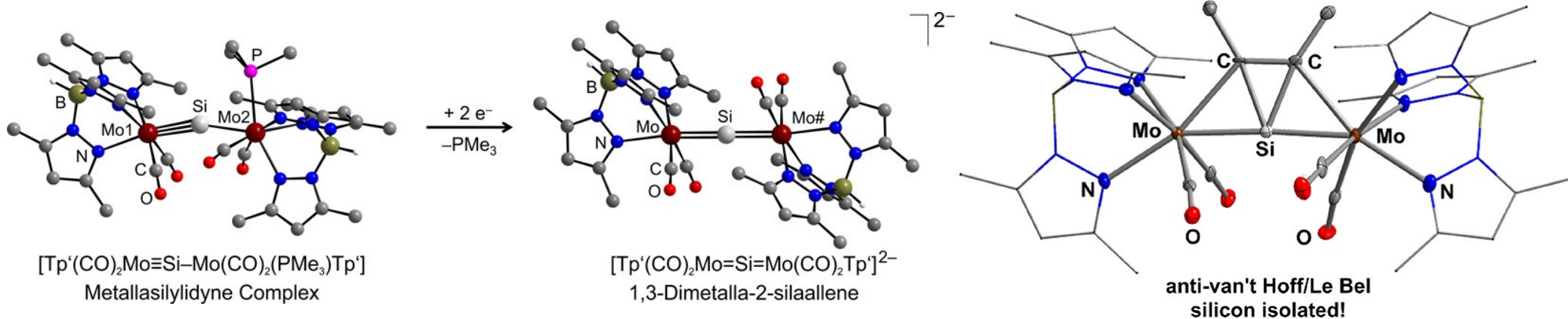
# 第99回有機元素化学セミナー

## The 99th Organoelement Seminar Series

Prof. Priyabrata Ghana

(Indian Institute of Technology Gandhinagar, India)

### "Breaking Boundaries: Multiple Bonding Between Transition Metals and Heavier Tetrel Elements"



In this talk, Prof. Ghana will discuss a strategy for the synthesis of the first open-shell heavier tetrylydyne complexes featuring a tetrel-centered unpaired electron. Building on these, he will present a synthetic approach to unprecedented metallatetrylydyne complexes containing a multiply bonded, linearly-coordinated heavier tetrel atom embedded between two transition-metal centers. Reactivity studies of these novel complexes have revealed a rich and unusual chemistry, leading to a variety of unprecedented products, including a novel  $\mu^3$ -silicido complex, the first dimetallasilacumulene featuring a linear two-coordinate silicon atom, and the first compounds containing planar tetracoordinate silicon (ptSi), representing an anti-van't Hoff–Le Bel silicon motif.

17:00-18:00, July 8 (Wed), 2026@Room M-123 (1st floor, main building, Institute of Science Tokyo)

Host: Makoto Yamashita (Sch. of Sci.) (yamashita.m.6dbb@m.isct.ac.jp)