



ICReDD  
International  
Seminar  
Series

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



**Place:** ICReDD Hall A, ICReDD Building,  
Hokkaido University

**Time:** Monday, 6 July 2026  
16:30-18:00

**Abstract:** In this talk, I will discuss our strategy for the synthesis of the first open-shell heavier tetrylidyne complexes featuring a tetrel-centered unpaired electron (I). Building on these, I will present a synthetic approach to unprecedented metallatetrylidyne complexes (II) 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.