

Lecture Series "*Frontiers in Science*"

Dr. Didier Bourissou

Université Toulouse III - Paul Sabatier, France

Title :

1. Ligand Design to Emulate Gold Reactivity
2. Gold Carbene Chemistry under Ligand Control

Date & Time : July 28 & 29, 2025, 13:15~14:45

Venue : G310 Meeting Room



Lecture Contents: Over the past decades, ligands have been shown to broadly expand the chemical space of gold complexes in terms of reactivity. Elementary steps such as oxidative addition, migratory insertion and β -hydride elimination were shown to be in fact accessible when gold is equipped with appropriate ligands.

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“Frontiers in Science” “IOCF Zen-ichi Yoshida Lectureship”

Dr. Didier Bourissou

Université Toulouse III - Paul Sabatier, France



Title: Phosphine-Boranes: Versatile Ambiphilic Ligands and Impactful Functionalization Moieties for Polycyclic Aromatic Hydrocarbons

Date & Time : July 28, 2025, 16:00~17:00

Venue : G101 Science Hall



Abstract: Our group has introduced phosphine-borane and related ambiphilic ligands. The combination of donor and acceptor sites result in versatile coordination properties. In particular, the Lewis acid moiety has been shown to readily behave as a σ -acceptor ligand through unusual TM \rightarrow LA interaction. The presence of a Lewis acid in the coordination sphere of the metal drastically modifies its electronic environment and offers a unique opportunity to modulate its reactivity. Our recent contributions in this field will be presented).



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