

# Science Frontier Seminar

## Prof. Ganesan Mani

Indian Institute of Technology, Kharagpur

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Title : Transition Metal Complexes  
Bearing Newly Designed Ligands for  
Catalysis

Time&Date : 16:30, June 24, 2024

Venue : G101 Science Hall



**Abstract:** Catalytic reactions such as hydrosilylation, reduction of atmospheric CO<sub>2</sub> to methoxyborane, transfer hydrogenation, and multicomponent reactions were studied by using Ni, Pd and Cu complexes bearing new pincer NHC, wide-bite angle dipyrromethane-diphosphines, pyrrole based sulfane and sulfone ligands. The differences in catalytic activity between nickel hydride and thiolate are discussed with the later involved in metal-ligand cooperation.



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