



Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500 046

Seminar

Value Added Chemicals from Acetylene, Ethylene and Isocyanides by Single to **Multi-Cycle Catalytic Processes Using Late Transition Metal Heteroatom Stabilised Singlet Carbene Complexes**

Prasenjit Ghosh IIT, Bombay

The catalytic conversion of the small molecule unsaturated substrates like acetylene, ethylene, and isocyanides to valueadded targets is an important frontier in the domain of homogeneous catalysis. The talk will highlight our efforts towards this objective using the late transition metalthrough mediated reactions iterative mechanistic understandings. Our journey across single-cycle catalyses like the alkyne hydroamination, and hydrohydrazination, multi-component multi-cycle various namely, three-component amine-aldehyde-acetylene (A³), and azide-isocyanide couplings and the hydrazone-isocyanideamine (HIA) coupling, will be narrated in keeping with the core theme of our research. Building superior catalysts through enhanced understanding of the catalyst mode of action lies at the heart of our endeavour.

Friday, Dec 27th 2024 11:30 Hrs (Tea / Coffee 11:15 Hrs) Auditorium, TIFRH