



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

Seminar

Advances in Electron Spin Resonance Technology and its Applications

Madhur Srivastava

Cornell University, NY

In recent years, Electron Spin Resonance (ESR) has become an essential technology to study organic and inorganic materials as well as proteins. This is due ESR's unique ability to study paramagnetic species at various 1owenvironments and at concentrations. importantly, it provides localised interaction that leads to precise information and quantification. This talk will focus on modern methods of ESR and their applications in biomedical and materials research. It will discuss instrumentation technologies (continuous wave and pulse 2D ESR), computational methods and processing and simulations), and latest studies in protein dynamics, catalytic reactions, carbon capturing, and clinical diagnosis.

Thursday, Jan 30th 2025 16:00 Hrs (Tea / Coffee 15:45 Hrs) Auditorium, TIFRH