

## **FLSB Special Lecture Series**

Nano-sized particles have become increasingly important in recent years because they possess unique physico-chemical properties and offer many advantages leading to their commercial exploitation. This has increased the chances of occupational and environmental exposure of humans and other life-forms to nanoparticles. Little is known about the short-term and long-term biological and health effects of exposure to nanoparticles. Prof. Saxena's research over last several years in India and abroad has focused on the biological and toxic effects of nanoparticles present in diesel engine exhaust as well as manufactured nanoparticles like carbon nanotubes on a variety of *in vitro* and *in vivo* biological systems. In this talk, he proposes to present a brief review of his results related to the biological effects of diesel exhaust particles and carbon nanotubes.