

# Seminar

---

---

## Institute for Plasma Research

---

---

**Title :** Nano-materials based sensors for the society

**Speaker:** Dr. Saakshi Dhanekar

Indian Institute of Technology, New Delhi

**Date :** 03 October, 2018 (Wednesday)

**Time :** 03.30 PM

**Venue :** Seminar Hall, IPR

### **Abstract :**

Nanomaterials can do wonders if made in the right form using right processes. These can be in the form of films which are grown on substrates using scalable processes. Such processes help in batch fabrication of the devices. My talk will primarily focus on how these nanomaterials are made using scalable processes can be used as efficient and sensitive sensors. These sensors are related to our society and thus their applications are wide and useful. Alcohol breath sensors being used by Traffic Police today are assembled in India. My talk will describe in-house fabrication from chip to the prototype. Another very useful device can be non-invasive detection of diabetic ketoacidosis. A very sensitive acetone sensor can be used for such a purpose and this will also be discussed in my talk. In short, recent advancements in sensors and their usefulness in the current time will be discussed.

---