

Bio

Dr. Seema Vinayak is an alumna of IIT Delhi, having completed her M.Tech (Solid State materials) from Physics Department where she carried out her M.Tech Project work in ***Thin Film Lab*** and completed her Ph.D from the same department under the supervision of Prof V.D Vankar. She is presently holding the position of Director, Solid State Physics Laboratory (SSPL) that is a premiere semiconductor lab of DRDO. She rose to this position with more than thirty years of experience in the indigenous development of high frequency semiconductor devices and MMICs. Her specific areas of expertise include Technology development of AlGaIn/GaN HEMT device & MMIC, of MESFET based 12-18 GHz GaAs MMICs, of W band GaAs Gunn & Schottky barrier beam-lead Diodes and of Nichrome thin film resistors with near zero TCR for GaAs MMICs. Presently she is leading several strategic R&D programs of the laboratory in the technology areas of acoustic emission and MEMs based sensors, IR detectors and High Power semiconductor Laser diodes.

She has to her credit more than 60 publications in national and international journals, seminars, conferences, symposia, and workshops. She has received several prestigious awards that include DRDO Outstanding Team Work Award for Path Breaking Research in year 1999 for the development of GaAs based MMIC Technology, DRDO Technology Award in year 1995 for the development of mmW devices, Certificate of commendation from SA to RM in the year 1990 and Gold medal for the development of Nichrome thin film resistors in 2006. Recently, she has been awarded the DRDO Path Breaking Research/Outstanding Technology Development Award, as team leader for the development of AlGaIn/GaN HEMT Technology.

Title of the Talk

Ethics for leading Lab research to production

Abstract

The journey from research and development (R&D) to Production is most satisfying due to its very outcome and most challenging due to its demands on the quality and reliability of research. Carrying indigenous development to production involves major team work and strong leadership to keep the team cohesive and focused. The talk shares interesting aspects of leadership that make this journey possible.