

Title: Advanced Sensors and Instrumentation: A Project Based Paper

Speaker: Subhas Mukhopadhyay

(Special Emphasis: Remote Environmental Parameters Measurement)

Abstract: The tutorial will focus on different sensors and sensing systems, instrumentation, electronics, embedded controller, interfacing issues of sensors to controller, underpinning advanced sensors and instrumentation for monitoring remote environmental parameters. A systematic approach towards the design of smart wireless sensor network will be described. The presentations will be augmented by case studies and hands-on demonstrations. The attendees will make their own WSN system starting from scratch.

Prof. Subhas Mukhopadhyay, Massey University, New Zealand has been awarded a Faculty Course Development Award 2013 from IEEE IMS to develop a course entitled "Advanced Sensors and Instrumentation: A Project Based Paper". The work is going on towards the development of the course. This tutorial will be an opportunity to present the developed work and share with the audience. The IEEE IMS will be able to verify the utility of the award.

The tutorial is suitable for engineers working in similar research and development project as well as for Master, PhD students. The presentations will be good mix between recent developments and established practices.