

# National ICT Australia invites you to the



**When:** 4-6pm, Monday November 27, 2006  
**Where:** Brown Theatre, Level 1  
Department of Electrical & Electronic  
Engineering (Building 193)  
University of Melbourne  
Parkville  
(Melways Map 75A Ref I8)  
**RSVP:** [Carmen.Doyle@nicta.com.au](mailto:Carmen.Doyle@nicta.com.au)  
by 24 November 2006

## Sensor Network Forum

[www.nicta.com.au](http://www.nicta.com.au)

### Monday November 27, 2006

Ian McCauley **Department of Primary Industries**

### Pigs, Penguins, Poultry and Peaches – A Wireless Sensing Stew

**REGISTRATION IS ESSENTIAL FOR THIS  
FREE EVENT**

**ABSTRACT:** The Primary Industries sector is often identified as a sector that should be an early adopter of wireless sensor network (WSN) technology. In this presentation I will give an account of some of our early experiences in testing and using WSN in applications such as vineyards, piggeries, coastal habitats and poultry sheds. These examples will also be used to compare and contrast the use of WSN in application for sensing and control and as a research tool for developing new understanding of natural phenomena. The challenge is to develop enough expertise either directly or through collaborations to provide a tool which is accessible to the scientist practising research in agricultural and environmental science.



**BIOGRAPHY:** Dr McCauley is a Senior Research Scientist in the Victorian Department of Primary Industries. His main role is in the study of the nutrition and physiology of livestock animals, particularly pigs. Since 2003 he has become involved in developing capability within his organisation to use wireless sensing technologies effectively. This has primarily involved utilising hardware from Crossbow Technologies and software based on Tiny OS. The focus has been on developing this technology for use in field applications.

