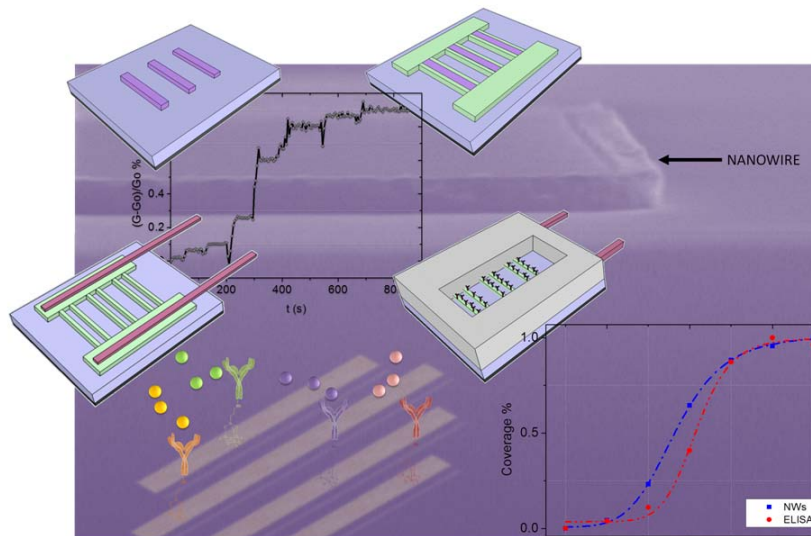


## Application of Nanotechnology to Preventative Healthcare

Professor Peter Ashburn, Southampton University



The diagnosis of disease is very much an *art* rather than a *science* as it relies heavily on the expertise and judgement of highly trained clinicians. Even the best clinicians in the world are unable to achieve 100% diagnosis success, particularly in the early stages of disease when symptoms may not be well developed. This presentation explores recent research on the use of silicon nanowire biosensors for the diagnosis of disease and shows that these biosensors are able to detect biomolecules in a pin-prick of blood that are an early indicator of disease. This research therefore aims to provide a technological means for a transition to a healthcare system in which regular screening for complex diseases enables prevention and early intervention.

This event is free of charge and open to all, with refreshments at 19.00.

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<http://www.theiet.org/ec3>

**Thursday 26 April 2012 19.00 for 19.30**  
Systems Engineering, University of Reading RG6 6UR

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