

# Patient Benefits from Nanomaterials

David Farrar

## **Abstract**

### **'Patient Benefits from Nanomaterials'**

Nanotechnologies provide huge potential for tissue repair products that derive unique properties from design and formulation at the nanoscale. This presentation will give an industry perspective on some of the opportunities created within the medical device market by nanotechnology. In particular the talk will focus on the use of new nanomaterials to address pressing healthcare issues in areas such as infection control, fracture healing, osteoarthritis and wound healing.

The potential of nanotechnology will be illustrated by S&N's successful commercialisation of ACTICOAT™, a nanocrystalline silver wound dressing, as well as by other examples of developments involving nanomaterials. These include the use of bioresorbable nanocomposites for fracture and soft tissue fixation, nanotextured surfaces to enhance cell responses and implant fixation, and nanofibre scaffolds for wound healing.

## **Speaker Biography**

### **David Farrar**

**David Farrar** is Technology Manager for Biomaterials at the S&N Research Centre in York. David provides scientific leadership for a multi-disciplinary team of scientists engaged in the development of novel biomaterials targeted at applications across the company's businesses. David joined Smith & Nephew in 1986 with a degree in physics from the University of Bristol. He has since worked on and led a wide range of materials-based research and development projects, becoming Head of Materials Science in 1996 and taking up his current role in 2001. David also has the position of Visiting Professor of Advanced Biomaterials at the University of Manchester.

