



# NCL Innovations

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## NCL Innovations **IDEA Catalyst** Workshop Series: 1<sup>st</sup> Workshop

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This workshop series focuses on exploring  
technology development and commercialization  
opportunities by connecting scientists/  
technologists with people who understand market  
and industry needs.  
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## Technology Development Opportunities for Orthopedic Products in Indian Markets

by

**Dr. Vijay Panchanadikar**  
Orthopedic Surgeon, Pune

On  
**Wednesday, 4 August 2010**  
3.30 – 5.00 pm

at  
Chemical Engineering Lecture Hall  
National Chemical Laboratory  
Pashan Road, Pune – 411008

### Dr. Vijay Panchanadikar



Dr. Vijay Panchanadikar  
Orthopedic Surgeon, Pune

#### *About the speaker*

Dr. Vijay Panchanadikar is an orthopedic surgeon from Pune, who has over two decades of experience in this field, and performs over 100 major orthopedic surgeries each year. His areas of interest include trauma surgery, joint replacement and computer imaging in orthopedics. He has published several papers and has delivered lectures and presentations at several conferences across India. He also teaches DNB students at Sanjeevan Hospital and holds a keen interest in developing interactive learning aids for orthopedics. He holds copyrights in India for imaging software used for accurate positioning of guide wire in surgeries for fractures of various bones.

#### *About the talk*

Polymers, ceramics and specialty alloys are increasingly used as bearing and/or volume-filling materials in orthopedic implants such as hips and knees. However, there are several issues with existing products, such as the need for highly skilled surgeons, limited bio-compatibility of implant materials, inappropriate pricing for Indian markets, etc. In this talk, Dr. Panchanadikar will show real life examples of implants used for a variety of orthopedic surgeries, and highlight the problems faced by orthopedic surgeons during the use of implants. He will describe a "wish list" of products for the orthopedic implant market as well as the need for software solutions to improve the accuracy of guide wire positioning as well as imaging & simulation tools for skills development of young surgeons. *This talk is a unique opportunity to bridge the gap between scientists with competencies in biomaterials and surgeons with awareness of market needs and product opportunities.*