



NCL Innovations

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NCL Innovations Seminar Series: 17th Talk

(in partnership with Venture Center)

Medical Device Innovation – Stories and Best Practices

by

Prof. B. Ravi

Institute Chair Professor, IIT Bombay

On

Saturday, 16 Sept 2017

Time: 2.30 pm – 3.30 pm

Venue: Lecture Theatre, Venture Center
100, NCL Innovation Park
Dr. Homi Bhabha Road, Pune – 411008

Register here

<https://goo.gl/forms/IlwNaHAEkSEYn98s1>

Talk followed by networking tea



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Abstract:

India requires a large number of medical devices that are affordable and suitable for the local population. Their development requires synergistic collaboration between doctors, researchers, engineers and entrepreneurs to cross the 'valleys of death' from concept to prototype to product to market. The 4-step process of 'Define-Develop-Deliver-Deploy' evolved at BETiC, IIT Bombay can be used for this purpose. In the last two years, the team curated over 300 unmet clinical needs from several hospitals, developed prototypes of 75 different devices, filed 25 patents, and licensed 10 products to industry, NGOs or hospitals. It includes customized prosthetic leg, flexible laparoscopy instrument, digital stethoscope and diabetic foot screener, whose stories will be briefly narrated. The secret of rapid product development at a low cost lies in appropriately leveraging digital technologies and creating a unique culture of inter-disciplinary multi-institutional collaborative innovation. We will share the lessons learnt and the best practices involved in bed-bench-business-bed translation, leading to high-impact healthcare products and high-value jobs in this sector.

About the speakers:

B. Ravi heads E-Foundry and BETiC- Biomedical Engineering and Technology incubation Centre at IIT Bombay. He is also a Fellow of Indian National Academy of Engineers, Honorary Adjunct Professor at National Institute of Advanced Studies, Bangalore, and governing or advisory council member of several institutes. He is an alumnus of IISc (Masters and PhD). Over the last 25 years, he guided the development of several innovative technologies and products in metal casting and medical fields, leading to 250 technical papers, 30 patents and software copyrights, and four start-up companies. His team has won several prestigious innovation awards. His philosophy of 'Golden Spiral' connecting education, research, development and application shows how to effectively translate research into reality.

About NCL Innovations Seminar Series

The NCL Innovations Seminar Series shall focus on models, institutional mechanisms, best practices, experiences and role models relating to technology acceleration, technology commercialization and new venture development.