



## **Seminar organised by Centre for Life Sciences (CeLS)**

**Date:** 28<sup>th</sup> Jan 2008  
**Venue:** CeLS Auditorium  
28 Medical Drive  
Singapore 117456

**Time:** 12pm to 2pm  
**Host:** Dr. Limsoon Wong & Dr. Viji Vijayan

**Lunch will be served.**

Dr. Bala S Manian  
CEO ReaMetrix Inc.  
SanCarlos USA

## **Fluorescent Measurements "red is exciting"**

Today, Fluorescence measurements play an important role in improving the sensitivity and specificity of biological measurements. However, when it comes to the selection of particular dye reporters and measurement platforms, the old paradigm still persists. Here is a transitional opportunity to change the prevailing paradigm. With the advent of efficient and affordable optical sources and detectors in the red and & near IR region, and with the recent advances of dyes in the red & IR region, it's possible to significantly improve detection sensitivity. In this spectral range, there is inherently lesser fluorescence of biological molecules as well as reduced light scattering. These features open new avenues for exploration hitherto not feasible. These gains cannot be achieved by just focusing only on reagents or hardware independently. What is needed is an integrated systems approach to fully leverage these new developments. This talk will illustrate these points with case studies that are supported by experimental data.

*Dr. Bala S Manian had been a part of the Silicon Valley over three decades as a successful serial entrepreneur and as a technology innovator. He is the founder of several successful life science companies such as Digital Optics, Molecular Dynamics, Lumisys, Biometric Imaging, Quantum Dot and SurroMed. His past innovations in life science include personal Phosphor Imager, high resolution fluorescence imaging systems, differential separation immuno-assay, Volumetric Capillary Cytometry and macro confocal imaging cytometry (FMAT). At present, Dr. Manian is totally engaged in India as the founding CEO of ReaMetrix Inc. ReaMetrix is leveraging scientific talent in India to explore new and innovative ways of addressing the unmet needs of the global healthcare community. Besides his own activities, he also serves as a Board member as well as a member of the Scientific Advisory board at BIOCON, India. He is a recipient of the motion picture's technical "OSCAR Award" in the year 1999. He holds to his credit over 35 US Patents and has nearly 35 publications in peer reviewed scientific journals.*

