



# A TWO DAY WORKSHOP ON CARDIAC HEALTH MONITORING AND IMAGING

July 30 & 31, 2011 (Saturday and Sunday)

Venue: Indian Institute of Science, Bangalore – 560 012



In the recent years, cardiac health monitoring has seen tremendous improvement in terms of instrumentation and point of care. In a recent report by world bank, it is assessed that cardiovascular diseases would emerge as the main cause of death (36 per cent) in India by 2030. The aim of this workshop is to impart the necessary technical and clinical skills to understand the instrumentation and clinical aspects of cardiac health monitoring. The focus will be on non-invasive instrumentation for continuous monitoring of the physiological signals related to cardiac health. There will be hands on lab sessions to provide much needed practical understanding of the associated instrumentation. Lectures from cardiologists (medical doctors) will highlight the clinical engineering aspects of the cardiac health monitoring. A clinical demonstration by eminent cardiologist will be part of this workshop.

## Main objectives of the workshop are:

- Develop necessary skills to understand essential instrumentation for cardiac health monitoring and imaging
- Develop knowledge to understand the non-invasive continuous monitoring of cardiac health parameters and interpretation.

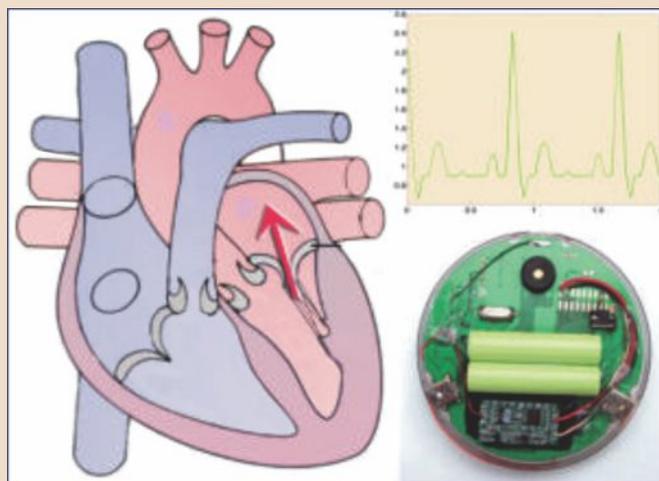
## Modules of the workshop

### Teaching modules

Sensors and signal conditioning  
Electrocardiography (ECG)  
Impedance Cardiography (ICG)  
Diagnostic Ultrasonography  
Echocardiogram (Cardiac Echo)

### Laboratory Modules

Electrocardiography (ECG)  
Impedance Cardiography (ICG)  
Echocardiogram (Cardiac Echo)



## Workshop Registration Fee

(10% concession to ISOI life members)

Academia/Non-profit/

Government Organizations : Rs. 5,000/-

Industry : Rs. 10,000/-

The payment (local check/DD) should be made in favor of "Instrument Society of India", payable at Bangalore.

Registration fee includes course material, lunch and refreshments.

## Applications can be downloaded from:

<http://isu.iisc.ernet.in/~isoi/chmi.html>

Last date for receipt of applications along with registration fee is July 15, 2011.

Last date for cancellation with full refund is July 20, 2011. No refund beyond July 20, 2011

## IISc Faculty:

Prof. J. Nagaraju, Ph.D.

Prof. Phaneendra K. Yalavarthy, Ph.D.

Prof. K. Rajan, Ph.D.

## Cardiologists

Dr. Prakash V.S., M.B.B.S., MD,

Chief of Cardiology, M. S. Ramaiah Hospitals

Dr. B. C. Bommaiah, M.B.B.S., MD,

Cardiologist, HCG Hospitals

## Organised by

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