

## Programme Schedule, HPC Symposium 2013, IIT Madras

2:00 PM – 2:10 PM

Opening Remarks

### **Session I:**

2:10 PM - 2:30 PM

“Formulation of an algorithm to implement Lowe-Andersen thermostat in parallel molecular simulation package, LAMMPS”,

Ms. Prathyusha K.R, Dept of Physics

2:30 PM – 2:50 PM

“Performance benchmarking of molecular dynamics simulations of HIV-1 Protease”

Ms. Rajeswari A, Dept of Biotechnology

2:50 PM – 4:00 PM

**Virgo dedication ceremony and high tea**

### **Session II:**

4:00 PM – 4:20 PM

“Dam-Break modelling and storm surge propagation”,

Dr. Soumendra Nath Kuiry, Dept of Civil Engineering

4:20 PM – 4:40 PM

“Engineering interactions between colloids”,

Dr. Ethayaraja mani, Dept of Chemical Engineering

### **Session III:**

4:40 PM – 5:00 PM

“Computational modelling of dendritic solidification using MPI and OpenCL Phase-Field method”

Mr. Gerald tennyson P, Metallurgical and Materials Engineering

5:00 PM - 5:20 PM

“Interaction of bubble (wake cavitation) with ultrasound”,

Mr. Pankaj kumar, Dept of Mechanical Engineering

5:20 PM – 5:40 PM

“An exact enumeration of solid partitions of integers  $\leq 72$ ”

Mr. Srivatsan B, Dept of Physics

5:40 PM – 5:45 PM

Concluding remarks