

National Workshop on “GPU Programming and Applications” (GPA-2014) IIT Bombay, February 24th-26th, 2014

Monday, 24 th February 2014	
0730-0845 hrs.	Registration
0900-0930 hrs.	Inaugural session
0930-1030 hrs.	Keynote speaker: Dr. Simon See, NVIDIA
1030-1045 hrs.	Tea break
1045-1145 hrs.	Prof. Shiva Gopalakrishnan, IIT Bombay: Supercomputing & GPU Computing
1145-1245 hrs.	Mr Vinay Deshpande, NVIDIA: GPU Architecture & CUDA
1245-1345 hrs.	Lunch break
1345-1500 hrs.	Mr Pradeep Gupta, NVIDIA: Programming GPUs with CUDA C/C++/Fortran
1500-1515 hrs.	Tea Break
1515-1715 hrs.	Mr Pradeep Gupta, NVIDIA: CUDA C/Fortran Hands-on
1715-1800 hrs.	Prof. Yashwant Gupta, TIFR: Case Study
1800-1845 hrs.	Industry Slot (HP)

Tuesday, 25 th February 2014	
0830- 0930 hrs.	Keynote speaker: Prof. Rajat Moona, DG, CDAC
0930- 1015 hrs.	Prof. Sharat Chandran, IIT Bombay: Case Study – Tracking, Random numbers, & the GPU
1015-1030 hrs.	Tea Break
1030-1115 hrs.	Prof. V. C. V. Rao, CDAC: Case study
1115-1245 hrs.	Mr Vinay Deshpande, NVIDIA: Optimization of your CUDA programs
1245-1330 hrs.	Mr Pradeep Gupta, NVIDIA: CUDA libraries
1330 – 1430 hrs.	Lunch Break
1430-1530 hrs.	Mr P.S. Dhabe, IIT Bombay: Use of various GPU memories Hands-on
1530-1630 hrs.	Mr Pradeep Gupta, NVIDIA: Porting & Optimizing sequential code on GPUs Hands-on
1630-1645 hrs.	Tea break
1645-1715 hrs.	Prof. Mahendra Verma , IIT Kanpur: FFT and a pseudo-spectral solver
1715-1745 hrs.	Industry Slot (Wipro)
1745-1815 hrs.	Industry Slot (Boston)
1815-1845 hrs.	Industry Slot (GT Enterprises)

Wednesday, 26 th February 2014	
0830-0900 hrs.	Mr Pradeep Gupta, NVIDIA: Recent CUDA 5.5 & 6.0 Updates
0900-0945 hrs.	Prof. Shiva Gopalakrishnan, IIT Bombay: Case study
0945-1030 hrs.	Prof. Sunil Kumar, IIT Madras: Case study
1030-1045 hrs.	Tea break
1045-1145 hrs.	Mr Vinay Deshpande, NVIDIA: Rapid CUDA development with OpenACC directives
1145-1215 hrs.	Prof. Shiva Gopalakrishnan, IIT Bombay: Introduction to OpenCL
1215-1245 hrs.	Prof. Sachin Patkar, IIT Bombay: GPU based HPC - Case studies from HPC Lab
1245-1345 hrs.	Lunch Break
1345-1500 hrs.	Mr Pradeep Gupta, NVIDIA: Porting codes with OpenACC Hands-on
1500-1545 hrs.	Mr Pradeep Gupta, NVIDIA: Using CUDA Libraries Hands-on
1545-1600 hrs.	Tea break
1600-1730 hrs.	MathWorks: Parallel Computing with MATLAB Hands-on
1730- 1800 hrs.	Closing Session