

National Symposium on NSM Grid over NKN

9th & 10th Oct. 2017 @ The Chancery Pavilion, Bangalore

Day 1 (9th October 2017)	
Registration: 08:30 AM – 09:30 AM	
Inaugural Session (09:30 AM – 10:30 AM)	
Inaugural Keynote address (10:30 AM - 11:00 AM) Title: Building and Operating State of the art Petascale computing systems Shri B.S. Jagadeesh, BARC Mumbai	
Tea break	
Session 1 : (11:30 AM - 01:00 PM) Chair: Shri Ganga Prasad GL	
Topic	Speaker
BigData Sciences for Scientific & Engineering Applications of HPC Domain	Shri P.S. Dhekne, Office of the PSA to Govt. of India
Accelerating Biology: Extreme scale visualization and analysis	Dr. Rajendra Joshi, C-DAC
Making HPC for numerical methods productive and fun	Prof. Prabhu Ramachandran, IIT Bombay
<i>Lunch Break</i>	
Session 2 : (2:00 PM to 3:45 PM) Chair: Dr. Sumit Mookherjee	
Topic	Speaker
The Practical Reality of Heterogeneous Super Computing: Transforming from Single Purpose HPC to Large Purpose HPC	Shri Bharat Kumar, NVIDIA
Importance of software optimization and code modernization to unleash potential of silicon.	Shri Rama Kishan V Malladi, Intel India
Role of HPC for Power Systems Operation	Dr. Gurunath Gurralla, IISc Bangalore
<i>Tea Break</i>	
Session 3 : (4:00 PM to 5:30 PM) Chair: Dr. A.B.Saha	
Topic	Speaker
Application of Bigdata technology in Bioscience area	Dr. M.V. Hosur, C-DAC
Blockchain Technology: Applications beyond Cryptocurrencies	Prof. Veni Madhavan C.E., IISc Bangalore
Post-quantum cryptography	Dr. Prem Laxman Das, SETS Chennai

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Day 2 (10 th October 2017)	
Session 4 : (09:00 AM – 11:00 AM)	
Topic	Speaker
Distributed High Throughput Computing with HTCondor and the Open Science Grid	Prof. Miron Livny, Univ. of Wisconsin-Madison (Over Skype conference tool)
Supercomputing: Research Challenges and Opportunities	Prof. Govindarajan, IISc Bangalore
LIGO: The new frontier of astrophysics	Dr. Parameswaran Ajith, ICTS-TIFR Bangalore
Trends in Research Computing on Public Cloud	Shri Ashwini Kumar, Microsoft India
Bigdata analytics frameworks for Streaming data applications	Ms. Supriya N. Pal, C-DAC
<i>Tea Break</i>	
Session 5 : (11:30 AM to 1:30 PM)	
Topic	Speaker
Advance search strategies in proteogenomics: Looking beyond the horizon	Dr. Debasis Dash, IGIB Delhi
Virtual Laboratories for accelerating e-Learning	Prof. Kannan Moudgalya, IIT Bombay
Secure Multiparty Computation	Dr. Anandamohan P.V, C-DAC
Molecular Dynamics simulation of AChE and p300 inhibitors	Prof. Kumaradhas, Periyar University Salem
Modern HPC Architectures and Parallel Programming	Ms. Mangala N, C-DAC
Cloud Security	Shri Santhosh J, C-DAC
<i>Lunch Break</i>	
Session 6: (2:30 PM to 3:30 PM)	
Panel Discussion	
Title: Building Ecosystem for Solving Grand Challenge Problems exploiting the Indian Talent in HPC, Grid & Cloud Computing	
Distinguished Panelists from Academia, Govt. & Industry	
Valedictory Address & Vote of Thanks	