



**WORKSHOP
ON**



**HIGH PERFORMANCE
COMPUTING
(WHPC 2015)
JULY 29-31, 2015**



VENUE : ISM, DHANBAD

Jointly Organized by:

Department of Applied Mathematics
Indian School of Mines (ISM)
Dhanbad-826004, Jharkhand (India)

<http://www.ismdhanbad.ac.in/applied-mathematics>

&

Centre for Development of Advanced Computing
(C-DAC), Pune University Campus, Ganeshkhind
Pune 411 007, Maharashtra (India)

<http://www.cdac.in/>

Indian School of Mines (ISM)

ISM is a fully residential technical institute having all modern amenities located in the mineral-rich belt of India in the city of Dhanbad, Jharkhand. It was established in 1926 on the lines of the Royal School of Mines, London. It is a technical institute of international acclaim offering a host of programmes like B.Tech, M.Tech, M. Sc. Tech., integrated M.Sc., integrated M.Sc. Tech. and MBA. It also offers M. Phil. and Ph.D. programmes, while also awarding D.Sc. The institute admits students through IIT-JEE and GATE/ISM Exam in respective programmes.

About the Department

The department provides an outstanding research environment complemented by excellent teaching for its students to flourish in different arena of academics and industry as well. It offers academic programs leading to the award of M. Sc. (Mathematics and Computing), Integrated M. Tech. (Mathematics and Computing), M. Phil. (Applied Mathematics) and Ph. D. degree and supporting B.Tech and M.Tech courses of ISM. The department is executing various sponsored projects received by UGC, CSIR, NBHM, ISRO, DST etc. It is well recognized by the external funding agencies with SAP-DRS provided by UGC and FIST provided by DST. The Society of Applied Mathematics (SAM) was formed in 2009 to promote the academic and research activities.

About C-DAC

Centre for Development of Advanced Computing (C-DAC) is a scientific Society under the aegis of a Department of Electronics and Information Technology (DeitY), Ministry of Communications and Information Technology, Government of India,

About the Workshop

This workshop will provide a broad overview of High Performance Computing (HPC) focussing on multi-core systems and GPUs. The Supercomputing experts of C-DAC will be involved in HPC lectures and Had-on Session. The workshop serves as a basic HPC training for running advanced application programs efficiently, on Clusters with accelerators. Participants will also get exposure of HPC to pursue further studies in specific areas such as: computational fluid dynamics, modeling & simulation, seismic tomography, weather forecasting, aerodynamic research, probabilistic analysis, Brute force code breaking, 3D nuclear test simulations, Molecular Dynamics Simulation, N-body simulation, Galactic Dynamics etc.

Who Should Attend?

Students, research scholars, faculty members of science & engineering, and industry personnel who are interested to get exposure and hands-on experience of HPC will get benefit from this workshop. The workshop provides a good HPC platform for researchers and student community:

Compute Labs.

Linux Servers, Workstation with NVIDIA GPUs Tesla Kepler K20/K40s, NVIDIA CUDA Teaching Centre, Remote Access to Cluster with accelerators and **PARAM YUVA-II** systems at C-DAC, Pune.

Call for Contributory Papers

The authors are requested to submit an abstract of their original research papers that have neither been published nor submitted for publication elsewhere.

Abstract submission deadline: **July 15, 2015**

Acceptance and communications: **July 20, 2015**

Full length papers submission: **July 20, 2015**

Registration

Online registration may be made using links given at ISM website. The printed copy of confirmation email and online fund transfer receipt of applicable registration fee may be mailed to the coordinator WHPC 2015 latest by July 15, 2015 for early registration and after July 15, 2015 for late registration.

Registration Fee by 15th July 2015

Rs. 1,500/- for UG Students

Rs. 2,500/-for PG Students & Research Scholars

Rs. 3,500/-for Faculties/Scientists

Rs. 4,500/- for Industry Personals

Late Registration Fee after 15th July 2015

Add Rs. 1,000/- extra in each category

Accommodation in

Executive Development Centre (EDC) on Payment basis

@Rs. 400/- per person/night AC room (on sharing basis)

@Rs. 800/- per person double bed AC room

Students Hostel on first come first serve basis (free)

Mode of Payment

- Online Fund Transfer (Bank/ATM/RTGS/NFT etc.)
- DD (in favour of "Society of Applied Mathematics (SAM)", payable at **Dhanbad**)

Bank Details

A/c No. 31422033210, Account Name: Society of Applied Mathematics (SAM), Branch-SBI ISM Campus, **IFSC Code: SBIN0001641, MICR Code: 826002006**

Links

For on line registration & Fee payment please visit <http://goo.gl/forms/YjqwDiXoap>

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Workshop Proceedings

Invited and selected contributory papers will be published in workshop proceedings.

Potential Keynotes Speakers

- Prof. Tapan Sengupta, IIT Kanpur
- Prof. Bhabani P. Sinha & Prof. Aditya Bagchi, ISI, Kolkata
- Prof B. Jayaram, IIT Delhi
- Prof. Deo Prakash Vidyarthi, JNU, New Delhi
- Dr. Rajiv Misra, IIT Patna
- Dr. C.P.Ravikumar, Texas Instruments, India
- Dr. Ashwini Kumar Nanda, HPC Links Pvt. Ltd. India and HPC Research Inc., US
- Dr. P. A. Sreeram, TIS Labs, Kolkata
- Dr. Yogesh G. Bhumkar, & Dr. Sathyanarayana Ayyalasomayajula IIT Bhubaneswar
- Dr. Gaurav Trivedi, IIT Guwahati
- Dr. P.S. Swathi & Dr. R.P.Thangavelu, CSIR-4PI (C-MMACS)
- Dr.VCV.Rao, C-DAC, Pune

Contact Persons:

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