

# High Performance Computing of Fluid Flows

December 12-13, 2014

IIT BHUBANESWAR, ODISHA

## REGISTRATION FORM

Full Name (in block letters) .....

Designation with address .....

Expectations from the present course .....

E mail ..... Contact no .....

Details of registration fee

Amount Rs. ..../- ( .....only)

(In words)

Draft no.....Date.....

Signature of the participant

Kindly send the complete registration form to the organizing coordinators of this workshop on or before **30<sup>th</sup> November, 2014**.

\*The candidature of ..... is forwarded herewith which may be accepted as the requisite draft will be produced at the time of registration.

.....  
(Name of the employer with seal)

\*Note meant for candidates employed in Government organizations who are not able to send DD before 30<sup>th</sup> November, 2014.

### Organizing committee:

(1) Prof. S. K. Mahapatra

(4) Dr. M. K. Das

(2) Dr. Sathyanarayana A.

(5) Dr. K. S. Ramanujam

(3) Dr. P. Rath

(6) Dr. Y. G. Bhumkar

# Workshop on High Performance Computing of Fluid Flows December 12-13, 2014



*Organized by*  
**School of Mechanical Sciences**  
**IIT Bhubaneswar, Samantapuri Campus**  
**Bhubaneswar-751013, Odisha**

Website: [www.iitbbs.ac.in](http://www.iitbbs.ac.in)

## INTRODUCTION

School of Mechanical Sciences of **Indian Institute of Technology Bhubaneswar** is organizing a workshop on **High Performance Computing of Fluid Flows** during 12-13 December 2014.

Indian Institute of Technology Bhubaneswar is one among the eight new IITs, established in 2008 in the campus of its mentor organization IIT Kharagpur and the School of Mechanical Sciences is part of the institute since its inception. IIT Bhubaneswar currently offers B. Tech., Joint M.Tech-PhD, Joint MSc-PhD and Doctoral (PhD) programme. Its present campus is located at Samantapuri (IIT Kharagpur extension centre) and Toshali Bhavan (Satyanagar) in Bhubaneswar city.

## ABOUT THE WORKSHOP

The workshop is being organized to bring researchers and experts from academic institutes and industries on a common platform to discuss the scientific aspects involved in computing fluid flows. Workshop is aimed at introducing parallel computing to the researchers working in the area of computational fluid dynamics. In addition to the expert's lectures, a parallel computing lab session will be helpful for the beginners. Participants will get opportunity to write parallel computing codes to solve model problems in this lab session.

## THEME

The workshop aims to include the following broad theme of high performance computing of fluid flows.

- Introduction to High Accuracy Schemes
- Metrics of High Performance Computing
- Parallel Computing Using Message Passing Interface (MPI)
- Domain Decomposition Technique
- Computation of Complex Transitional and Turbulent Flows

## FOR WHOM

This workshop is meant for academicians, scientists from government as well as private industries and students. Number of participants for this workshop is limited to thirty.

## INVITED LECTURES

Eminent academicians and experts working in the area of computational fluid dynamics will deliver lectures related to the need and various aspects of high performance computing.

## VENUE

Institute Auditorium, Samantapuri Campus, IIT Bhubaneswar, Odisha.

## REGISTRATION

Participants may complete and return the registration form along with the following registration fee per delegate.

Corporate:	₹ 10000
Academician:	₹ 7000
Student/Scholar:	₹ 3000

The payment of the registration fee should be Demand Draft drawn in favor of **"CEP IIT Bhubaneswar"** payable at Bhubaneswar. The registration fee includes workshop kit, high tea, and two lunches. Travel and accommodation expenses of the participants will be borne by the participants or their sponsoring organization.

List of nearby Hotels of IIT Bhubaneswar:

<b>SWOSTI PREMIUM</b>	<b>GINGER</b>	<b>ATMARAM (pure Veg.)</b>
P-1 Jaydev Vihar, Nandan Kanhan Road, Bhubaneswar Ph: 0674-3017000	Opp. Nalco HQ, Jaydev Vihar, Bhubaneswar Ph: 0674-6663333	Behind Ginger Hotel, Jaydev Vihar, Bhubaneswar Ph: 0674-2301702

Limited accommodations at the institute hostels will be available at concessional price upon prior request. For information and correspondence, please contact:

**Dr. Yogesh G. Bhumkar**

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