

The Organising Committee of **CHEP06** is pleased to announce:  
International Conference on  
**Computing in High Energy and Nuclear Physics**

February 13 – February 17, 2006, Mumbai, India

### **Introduction**

Computing in High Energy and Nuclear Physics (CHEP) is a major series of international conferences for physicists and computing professionals from the High Energy and Nuclear Physics community, Computer Science and Information Technology.

The CHEP conference provides an international forum to exchange information on computing experience and needs for the community, and to review recent, ongoing, and future activities.

CHEP06 is organised by TIFR, Mumbai (India). Further bulletins will provide information about the conference's background, organisers, topics, programme and preliminary registration information. A website is created at URL <http://www.tifr.res.in/chep06/> where the information will be continually updated.

### **Venue and Dates**

CHEP06 will be organised within the premises of **TIFR, Mumbai (India)**. The dates have been fixed from **Monday February 13, 2006 to Friday February 17, 2006**.

Pre-registration will start from **June 15, 2005**. The registration fees for early registration will be **US\$ 300**. Pre-registration is possible even after **December 15, 2005** but then the registration fees will be **US\$ 350**.

Registration will start on **Sunday February 12, 2006** afternoon at 14:00 until 20:00. Registration will also be possible on Monday morning and each subsequent mornings for delegates who arrive later in the week.

### **History**

CHEP conferences are held in roughly 18 month intervals, alternating between Europe, North America and other parts of the world. Recent CHEP conferences have been held in

**Asia:** Tsukuba, Japan (1991)

**Europe:** Annecy, France (1992)

**N America:** San Francisco, California (1994)

**S America:** Rio de Janeiro, Brazil (1995)

**Europe:** Berlin, Germany, (1997)

**N America:** Chicago, Illinois (1998)

**Europe:** Padova, Italy (2000)

**Asia:** Beijing, China (2001)

**N America:** San Diego, California (2003)

**Europe:** Interlaken, Switzerland (2004)

## Organisation

There is an International Advisory Committee setting the overall themes of the conference, a Local Organising Committee responsible for the conference infrastructure. There will be a Programme Committee responsible for the content of the conference.

### International Advisory Committee

Dario Barberis	ATLAS
Lothar Bauerdick	Fermilab
Jean-Jacques Blaising	CERN
Amber Boehnlein	Tevatron
Kors Bos	NIKHEF
Jim Branson	SanDiego
Nick Brook	LHC-b
Federico Carminati	ALICE
He Sheng Chen	Beijing
Ashit De	SINP(Kolkata)
Manuel Delfino	PIC
P.S. Dhekne	BARC(Mumbai)
David Foster	CERN
Fabrizio Gagliardi	CERN
Volker Gülzow	DESY
John Harvey	CERN
Hafeez Hoorani	NCP(Pakistan)
Viatcheslav Ilyin	Moscow
Matthias Kasemann	DESY
Nobuhiko Katayama	KEK(Belle)
Setsuya Kawabata	KEK
Marcel Kunze	FZK(Germany)
Simon C. Lin	Taiwan
Mirco Mazzucato	Padova
Robin Middleton	RAL
David Morrison	BNL
Richard P. Mount	SLAC
Harvey B. Newman	CalTech
Anil Rawat	CAT(Indore)
Les Robertson	CERN
Wolfgang von Rueden	CERN
Hiroshi Sakamoto	Tokyo
Alberto Santoro	Brazil
Alan Silverman	CERN
Randy Sobie	Victoria(Canada)
Dongchul Son	Korea
David Stickland	CMS
Michal Turala	Cracow
Torre Wenaus	BNL
Victoria White	Fermilab
Guy Wormser	LAL

### Organising Committee

B. S. Acharya	TIFR, Mumbai
Sunanda Banerjee	TIFR, Mumbai
P. V. Deshpande	TIFR, Mumbai
Shashi R. Dugad	TIFR, Mumbai
Manoranjan Guchait	TIFR, Mumbai
Atul Gurtu	TIFR, Mumbai
Uma Mahadevan	TIFR, Mumbai
Gobinda Majumder	TIFR, Mumbai
Ajit K. Mohanty	BARC, Mumbai
R. K. Shyamsundar	TIFR, Mumbai
K. Sridhar	TIFR, Mumbai

### Programme Committee

## Travel and Accommodation

Mumbai is well connected to all major cities in the world and also to rest of India. The international and domestic airports of Mumbai are located roughly 30 km from the conference venue. Efforts are being made to provide pick-up facilities at the airport. The two major railway stations are located at 7 km (CST) and 12 km (Mumbai Central) from TIFR.

Details on accommodation will be given in the next bulletin. Arrangements are being made with some good hotels within 5 km from the conference venue. We are negotiating for some special rates for the conference delegates. There will be arrangements to transfer the delegates from the place of accommodation to TIFR and back.

## Conference Programme

The scientific programme of CHEP06 conference will consist of a plenary session of invited oral presentations, a number of parallel sessions comprising oral and poster presentations, and an industrial exhibition. Contributions will be solicited in the form of abstracts and the Programme Committee, with the help of the International Advisory Committee, will use these to finalise the programme.

The theme of the conference will focus on the processing of HEP data at all stages, from the high level triggers that run on farms of CPUs situated close to the experiment through to the final analysis that use resources distributed worldwide. We expect to draw on the experience from running experiments and also to review the status of new studies of the distributed computing models being made in preparation of the LHC experimental programme.

The preliminary ideas of the list of topics to be covered are as follows:

**Online Computing:** CPU farms for high-level triggering; farm configuration and run control; describing and managing configuration data and conditions databases; online software frameworks and tools.

**Event processing applications:** event simulation and reconstruction; physics analysis; event visualisation and data presentation; toolkits for simulation and analysis; event data models; detector geometry models; specialised algorithms for event processing.

**Software Components and Libraries:** persistency; interactivity; foundation and utility libraries; mathematical libraries; component models; object dictionaries; scripting; graphics; use of 3rd party software components (open source and commercial).

**Software Tools and Information Systems:** programming techniques and tools; software testing; configuration management; software build, release and distribution tools; quality assurance; documentation.

**Distributed Data Processing:** studies of data organisation and analysis strategies; data management systems; distribution and storage of all types of data (raw, simulated, calibration etc.); event selection and data mining; exploitation of the computing centres and fabrics; the development of the distributed computing models of experiments; real experience in prototypes and production systems.

**Computer Facilities and Grid Computing:** integral systems (cpu/storage) and their operation and management; functionality and operation of regional centres; global usage

and management of resources; grid infrastructure and its exploitation in distributed computing models.

**Networking:** global network status and outlook; advanced technologies and their use in applications; HENP networks and their relation to future grid systems; the digital divide and issues of access, readiness and cost; collaborative systems, progress in technologies and applications.

## **Social Programme**

There will be a welcome reception on the evening of Monday, February 13, 2006. Entrance to this will be included with the conference registration fees, as will entrance for the mid-week conference dinner to be held on Wednesday, February 15, 2006.

There will be a cultural evening. The details of this will appear in the future bulletins.

## **Timetable**

**Second Bulletin:** June 15, 2005 (Call for Contribution, Conference Registration, Hotel Reservation)

**Third Bulletin:** August 15, 2005 (Conference Programme News)

**Final Date for Contributions:** September 15, 2005

**Fourth Bulletin:** October 15, 2005

**End of Early Registrations:** December 15, 2005