

International Conference on
Computing in High Energy and Nuclear Physics

February 13 – February 17, 2006, TIFR, Mumbai, India

Bulletin # 2

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 the Tata Institute of Fundamental Research (TIFR), Mumbai (India). For most up-to-date information, please visit the website created at URL <http://www.tifr.res.in/chep06/> where the information will be continually updated.

Registration

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 has started and can be done either online or by downloading the pdf file from the registration page and sending the filled in form by fax to +91.22.2278.2345. On submission of the registration form, the participant will receive an email with the submitted details and activation URL. The participant should visit this URL to activate the account. Once activated, a second email will be sent along with a personal identifier and an initial password. The participant can subsequently log in to his/her personal area using this from the registration page and modify the personal details.

The conference fee for early registration (up to **December 15, 2005**) is **US\$ 300**. Pre-registration is possible even after December 15, 2005 but then the conference fee will be **US\$ 350**. Participants can pay the conference fees either through credit card or using a banker's cheque payable to **CHEP06**. The participant will receive a pdf file by email (or can be downloaded from the personal area). The banker's cheque should be sent along with the completed pdf file to the organisers at the postal address provided on the website. If credit card option is chosen, the participant should complete the form (sent as a pdf file) and send it either by fax to +91.22.2278.2345 or by email to chep06@tifr.res.in.

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.

Organisation

There is an International Advisory Committee setting the overall themes of the conference, a Local Organising Committee responsible for the conference infrastructure. The Programme Committee is 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)
H. G. Essel	GSI
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

Sunanda Banerjee	TIFR, Mumbai
Lothar Bauerdick	Fermilab
Leena Chandran-Wadia	CERN
Gabriele Cosmo	CERN
Francois Fluckiger	CERN
David Francis	CERN
Peter Hristov	CERN
Vincenzo Innocente	CERN
Sverre Jarp	CERN
Beat Jost	CERN
Marcel Kunze	FZK(Germany)
Simon C. Lin	Taiwan
Lorenzo Moneta	CERN
Doug Olson	LBL
Laura Perini	INFN
Andreas Pfeiffer	CERN
Lawrence S. Pinsky	Houston
Ruth Pordes	Fermilab
Fons Rademakers	CERN
Alpana Rajan	CAT(Indore)
Les Robertson	CERN
Markus Schulz	CERN
Jamie Shiers	CERN
Avi Yagil	Fermilab

Accommodation

Arrangements have been made with some good hotels within a short distance from the confer-

ence venue. Some special rates have been negotiated for the conference delegates. There will be arrangements to transfer the delegates from the place of accommodation to TIFR and back. Booking of accommodation will be done by the organisers with the participants specifying their hotel choice and other details by filling a form online. A pdf file will be created on filling up the option for hotel and will be sent to the participant. Alternately participants can download the form from the web. The hotel needs credit card number for surety. The participant is required to fill in the credit card detail and should send it to the organisers either through fax at number +91.22.2278.2345 or by email to chep06@tifr.res.in. Please note that online request can be made by already registered participants after login.

There are a number of hotels of different categories each offering a limited number of beds. They will be given on first come first served basis. The current list of hotels are:

Name	Category	Location
Taj Mahal	5★ Deluxe	4 km from TIFR
Taj President	5★	2 km from TIFR
Marine Plaza	5★	6 km from TIFR
Fariyas	4★	3 km from TIFR
Gordon House	4★	4 km from TIFR
Ambassador	4★	6 km from TIFR
Astoria	3★	6 km from TIFR
Godwin	3★	4 km from TIFR
Diplomat	3★	4 km from TIFR

Certain hotels provide room rents separately in US\$ and Indian currencies (INR) while others provide only in INR and the exchange rate at that time will be applicable if paid in other currencies. Non Indian passport holders and non-resident Indians are required to settle their hotel bills in foreign currency only. The current exchange rate for US\$ is approximately 44 INR for 1 US\$. The approximate rate for the hotels in different room types are provided below:

Hotel	Room Type	Single Occupancy		Double Occupancy	
		(in US\$)	(in INR)	(in US\$)	(in INR)
Taj Mahal	Superior City View	180	7000	200	8000
	Superior Sea View	190	7500	210	8500
	Deluxe City View	200	8000	220	9000
	Luxury City View	265	10500	295	11500
Taj President	Standard	130	5000	150	5500
	Executive	150	6250	170	6750
	Deluxe	175	7500	195	8000
Marine Plaza	Deluxe Sea View	150		160	
	Executive Suites			160	
Fariyas	Standard		3500		3800
	Deluxe		4200		4500
	Executive Club		5000		5000
Gordon House	Deluxe		4000		4500
Ambassador	Executive	105		108	
Astoria	Deluxe		3500		3500
Godwin	Standard		2300		2600
Diplomat	Standard		1870		2280
	Deluxe		2175		2700

Pre-Conference Workshop

It is proposed to hold a 3-day workshop on service challenges for LHC experiments just preceding the CHEP06 conference. This will be organised in the same venue and will take place between **Friday February 10, 2006** and **Sunday February 12, 2006**. Additional conference fee of **US\$ 50** will be applicable for participants to this workshop. More information on this topic is available on the URL <https://uimon.cern.ch/twiki/bin/view/LCG/LCGServiceChallenges>.

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 list of topics to be covered is 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.

Computing Facilities and 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.

Grid middleware and e-Infrastructure operation: 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.

Distributed Event production and processing: the development of the distributed computing models of experiments; real experience in prototypes and production systems; emphasis on the early days of LHC running.

Distributed Data Analysis: use of distributed computing for cpu-intensive analysis; access to very large distributed data-base over wide area network; low-latency interactive analysis over wide area network; collaborative tools for supporting distributed analysis; remote access to and control of data acquisition systems and experiment facilities.

Participants are requested to **submit abstracts** for contributions to the conference through the website. Deadline for abstract submission is **October 31, 2005**. The programme for the plenary session is being finalised and will be put up on the web soon.