Computing in High Energy and Nuclear Physics

Prague | Czech Republic | 21 - 27 March 2009

Bulletin 1

INTRODUCTION

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

CHEP'09 is co-organized by CESNET (Czech Scientific Network Provider and Advanced Network Application Supporter), Charles University in Prague – Faculty of Mathematics and Physics, Czech Technical University, Institute of Physics AS CR and Nuclear Physics Institute AS CR.

Further bulletins will provide information about the conference program along with preliminary registration and hotel accommodation information.

DATES AND VENUE

Conference
Monday 23 March
to Friday 27 March 2009

WLCG Workshop
Saturday 21 March
to Sunday 22 March 2009

Conference web site
www.particle.cz/chep2009

Online registration will start in
September 2008.

The conference will take place in the Prague Congress Centre (PCC), Prague, Czech Republic. The PCC is situated on one of the dominant points of the city. From here you can view the wonderful panorama of Prague over the river Vltava. Further information can be found at the web site (http://www.kcp.cz)

HISTORY

CHEP conferences are held at roughly 18 month intervals, alternating between Europe, Asia, North America and other parts of the world. Recent CHEP conferences have held in Victoria, Canada(2007); Mumbai, India (2006); Interlaken, Switzerland (2004); San Diego, California (2003); Beijjing, China (2001); Padova, Italy (2000); Chicago, Illinois (1998); Berlin, Germany (1997); Rio de Janeiro, Brazil (1995); San Francisco, California (1994); Annecy, France (1992); Tsukuba, Japan (1991); Santa Fe, New Mexico (1990); Oxford, England (1989); Asilomar, California (1987); Amsterdam, Netherlands (1985).

ORGANIZATION

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

The Professional Conference Organiser is Guarant International, responsible for registration, accommodation, conference servicing.

Details of these can be found at the web site (http://www.particle.cz/chep2009)

TRAVEL AND ACCOMMODATION

Prague is well connected to all major cities in the world. The International and domestic airports of Prague are located roughly 18 Km from the conference venue. To get from the airport to the conference venue (or to the hotel) you can take a taxi or the well organized public transport.

Details on accommodation will be given in the next bulletin. Arrangements are being made with hotels close to the conference venue. We are negotiating special rates for the conference delegates.

CONFERENCE PROGRAMME

CHEP'09 will have plenary and parallel sessions during the week-long conference. The plenary presentations will focus on topical issues in HEP computing as well as exploring new technologies for the future. The parallel sessions will be based on contributions submitted by the HEP community and will focus on the following areas:

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; Online calibration procedures; Remote access to and control of data acquisition systems and experiment facilities.

Event Processing
Event simulation and reconstruction; Physics analysis; Event visualization and data presentation; Toolkits for simulation and analysis; Event data models; Specialized algorithms for event processing.

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Software Components, Tools and Databases

Programming techniques and tools; Software testing; Configuration management; Software build, release and distribution tools; Quality assurance; Documentation; Foundation and utility libraries; Mathematical libraries; Detector geometry models; component models; Object dictionaries; Scripting; Graphics.

Hardware and Computing Fabrics

Basic hardware, multicore and multiple CPUs, benchmarks and real experience; Fabrics virtualization; Fabrics management and administration; Local/site I/O, access to data, MSS systems.

Grid Middleware and Networking Technologies

Grid middleware, both experiment specific and generic; Perspectives in middleware development; Middleware reliability and interoperability; Grid middleware configuration, testing, and management tools; Grid monitoring tools; Networks and their relation to grid systems; Grid and WAN data access and transfer; Grid fabrics, its operation and monitoring; Resource management and accounting; Developers and Grid operators experience and issues from Compute and Data Challenges, and real data run.

Distributed Processing and Analysis

Distributed application experience; Distributed data processing; Distributed analysis; Experience and issues with real production; Solutions for coping with a heterogeneous environment. Virtualization; Mobile computing; Monitoring of user jobs and data; Interactive analysis over wide area network.

Collaborative Tools

Collaborative systems, progress in technologies and applications; Advanced videoconferencing systems; Experience in the usage of video-conferencing tools.

SOCIAL PROGRAMME

A Welcome reception will take place at the Conference Centre on Sunday 22 March 2009. On Thursday 26 March 2009 we will have a conference dinner. Entry to both will be included in the conference registration fee. Extra tickets will be available for purchase for the dinner for accompanying partners.

On the Wednesday afternoon, sessions will not be held. Delegates will be offered a selection of tours including a guided tour through Prague. Full details will appear in the next Bulletin.

TIMETABLE

Second Bulletin – September 2008 (Call for Contribution, Conference Registration, Hotel Reservations)

Abstract sending is open from September 2008
Online registration is open from September 2008

Third Bulletin – November 2008 (Conference Programme News)

Deadline for sending contributions is 13 November 2008
Deadline for early registration is 15 December 2008

PARTNER PROGRAMME

Prague and the Czech Republic are frequent tourist destinations and we expect many of our delegates to be accompanied by their partners and families. We will propose city visits and surrounding places of interest for them. Details should appear in the next Bulletin and on the website.

FURTHER INFORMATION

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In addition, we are creating a mailing list for dispatching further information, including the Second and subsequent Bulletins. If you wish to register to receive such information, please go to the URL http://www.particle.cz/conferences/chep2009/interest.aspx and register your interest. [Subscription will generate a short mail exchange to verify that only genuinely -interested people register and not anonymous web scanners.]