May 17 – 23, 2009

LSU to Host International Conference on Computational Science Next Week

The CCT will draw academic and industry leaders from a variety of fields, including physics, astronomy, mathematics, music, digital media, biology and engineering to Baton Rouge next week for the ninth annual International Conference on Computational Science, or ICCS.

This conference brings together scientific researchers from around the world to discuss the latest high-performance computing developments and breakthroughs. The conference in Baton Rouge will mark only the third time ICCS has taken place in the United States.

"ICCS 2009: Compute. Discover. Innovate." will take place May 25-27 in downtown Baton Rouge. Talks and presentations at this conference will focus on new applications for high-performance computing, including petascale algorithms, tools and applications, high-speed optical networks such as the Louisiana Optical Network Initiative, or LONI, distributed data management and sharing and new software programs for biomedical, science and humanities research. Topics will also include areas outside of traditional computational sciences, such as digital media, animation, scientific visualization and electronic composition.

ICCS will begin by offering three free tutorials on Sunday, May 24. The tutorials include:
- Parallel Performance Evaluation Tools for HPC Systems
- GPU Processors for Data Parallel Solutions for High-Performance Computation Research
- Developing HPC Applications with the Cactus Framework

Tutorials are free, but those who wish to participate must register in advance. Those who wish to take part in the tutorials who also will attend the conference do not need to pay a separate fee for tutorials.

The University of Amsterdam and the University of Tennessee organize ICCS annually, with local organization in 2009 through CCT. Sponsors of ICCS 2009 are CCT, SiCortex and Intel.

For more information on ICCS 2009, or to see a complete schedule of conference events, please visit http://www.iccs-meeting.org/iccs2009/.

Upcoming Lectures:

- John Quackenbush, from the Dana-Farber Cancer Institute and the Harvard School of Public Health, will be lecturing on "Information-integration approaches to biological discovery in high-dimension data" hosted by the Louisiana Biomedical Research Network. The lecture will take place Thursday, May 28, at 3 p.m. in the Life Sciences Annex Auditorium Room A101.

- Jiangguo Liu, from Colorado State University, will lecture on "The Enriched Galerkin (EG) Method for Local Conservation" as a part of the Computational Mathematics Seminar Series. The lecture will take place on Monday, June 15 at 11 a.m. in Johnston 338.

Please Note:

- The last ALL CCT meetings of the Spring 2009 semester will take place this Wednesday, May 20, at 3 p.m. in Johnston 338. Please make every effort to attend. If you have any information, news or announcements you wish to include at the meeting, please notify Karen Jones, kjones@cct.lsu.edu.

- CCT and the AVATAR Initiative will host the John Lennon Educational Tour Bus on the LSU campus Thursday, June 4, and Friday, June 5. The bus is a mobile music and audio recording studio that visits college campuses, schools and community organizations across the United States each year to give students a chance to produce their own songs and music videos, experimenting with audiovisual technology. Apple provides all of the computer and recording equipment available on the bus. The John Lennon Educational Tour Bus will be parked on the south end of the Parade Ground, on the Union side. The bus will be open from 9 a.m. to 5 p.m. on these two days. Students, faculty and community members are invited to come experience the bus and use the equipment inside to produce their own digital media projects. There is no cost for this activity. CCT and AVATAR are planning to have the bus open to the general public on Thursday, June 4, and will arrange for groups to tour the bus and use it for special digital media projects such as music recording, songwriting and music video production on Friday, June 5. If you are interested in having a group of students form your school or department participate in the special project session on Friday, June 5, please contact AVATAR coordinator Lea Anne Couvillion at leaanne@cct.lsu.edu to make these arrangements.

- **Deadlines open for SC09 in Portland, Oregon:**

  POSTERS/DOCTORAL SHOWCASE/BOFs/CHALLENGE
  Due: Monday, July 27, 2009
  Notification: Monday, August 17, 2009
  SHOWCASE/BOFs/CHALLENGE
  Due: Monday, July 27, 2009

Notification: Monday, August 17, 2009
DISRUPTIVE TECHNOLOGIES
Due: Monday, July 27, 2009
Notification: Monday, August 17, 200
STUDENT VOLUNTEERS/BROADER ENGAGEMENT
Applications Due: Monday, August 3, 2009
Notificatio: Monday, September 7, 2009
EDUCATION PROGRAM
Applications for the on-site program due: Monday, June 1, 2009

- Please note the three Cactus tutorials offered in the coming months. No prior knowledge of Cactus is required and material will be available on the Cactus Web site.

  1.) May 24 in Baton Rouge, LA:
  A half-day tutorial for ICCS <http://www.iccs-meeting.org/> (International Conference on Computational Science) titled "Developing HPC Applications with the Cactus Framework". It will introduce the Cactus framework, how to write applications using Cactus, and how to use its adaptive mesh refinement infrastructure.

  Note that you can attend this tutorial without registering (and paying) for the conference, but you need to register for the tutorial itself.

  2.) May 27 in Baton Rouge, LA:
  A two-hour beginner's tutorial as part of the LSU/LONI HPC training courses, to be announced at <http://www.hpc.lsu.edu/training/>. It will introduce the Cactus framework and how to use it on the LSU/LONI HPC systems.

  3.) June 22 in Arlington, VA:
  A half-day tutorial as part of TeraGrid '09 <http://www.teragrid.org/tg09/index.php?option=com_content&task=view&id=55>. This will be a hands-on tutorial introducing Cactus, building applications, running simulations, and visualizing output.

- If you have any news for the CCT Weekly, please e-mail PR Manager Kristen Sunde directly at ksunde@cct.lsu.edu.

Upcoming Grant Deadlines:

Note: Please see the CCT deadline Web site, as many NSF deadlines are listed here: http://www.cct.lsu.edu/about/grants/deadlines/events.php

- Petascale Computing Resource Allocations (PRAC)

May 20 2009 10:00 am
At Most $ 500,000.00 available
http://www.nsf.gov/pubs/2008/nsf08529/nsf08529.htm

• Faculty Early Career Development (CAREER) Program
July 22 2009 10:00 am
At Most $ 400,000.00
Full Proposal Deadlines by Discipline: July 21, 2009 - BIO, CISE, EHR July 22, 2009 -
ENG July 23, 2009
http://www.nsf.gov/pubs/2008/nsf08557/nsf08557.htm

• Information and Intelligent Systems (IIS): Core Programs
August 30 2009 10:00 am
At Most $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09557/nsf09557.htm?govDel=USNSF_25

• Computing and Communication Foundations (CCF): Core Programs
August 30 2009 10:00 am
At Most $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09555/nsf09555.htm?govDel=USNSF_25

• CISE Cross-Cutting Programs: FY 2010
August 30 2009 10:00 am
At Least $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09558/nsf09558.htm?govDel=USNSF_25