



Sept. 26 –Oct. 2, 2010

**Pats on the Back:**

- Thomas Sterling was invited to attend the by-invitation-only annual ScalePerf workshop Sept. 17-24 in Bertinoro, Italy. This meeting brings together the world's leading experts in extreme scalability for hardware, software and applications. Professor Sterling was invited to give a presentation on the ParalleX execution model for high-performance computing.
- Susanne Brenner was a keynote speaker at the 2010 South Eastern Mathematical Science (SEAMS) Workshop at the College of Charleston, September 23-25. Her talk was on "C0 Interior Penalty Methods for Fourth Order Problems." The SEAMS Workshop (also known as "Cha-Cha Days" for Charleston and Chapel Hill) is a three-day get-together of young scientists with an interest in applied mathematical sciences. Three keynote speakers are chosen for the workshop.
- Eun-Hee Park also participated in the SEAMS Workshop and gave a 30 minute presentation on "Two-level Additive Schwarz Preconditioners for a Weakly Over-Penalized Symmetric Interior Penalty Method."
- Honggao Liu received a supplement to the "LONI Grid - Leveraging HPC Resources of the Louisiana Optical Network Initiative for Science and Engineering Research and Education" award. The award is for \$26,303 and will be used to subcontract with Cornell University.
- Shantenu Jha received an award from the National Science Foundation titled "Understanding the Landscape of Data-Intensive Research: Coupling U.S. Researchers to the UK e-Science Institute Research Theme Activities." The award is for \$50,000 for one year. The award will be used to pay for non-LSU employees to travel to three workshops as part of the eSI Research themes on data-intensive research to be held in Edinburgh, UK.
- Sumanta Acharya, Werner Benger, and Sundaraj Iyengar received an award from BP Exploration and Production titled "Modeling, Data and Visualization of Deepwater Horizon Oil Spill." The award is for \$250,002 for one year.
- Mark Jarrell's Department of Energy project titled "Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials" has been transferred to LSU. The award is for \$884,509 for two years.

### **CCT in the News:**

NCSA Receives NSF Grant to Develop Eclipse-Based Workbench for HPC Applications

Source: [HPC Wire](#)

Clayton M. Christensen, Leading Thinker on Innovation, to Present Keynote at SC10

Source: [Benzinga](#)

### **Please Note:**

- The next training is Advanced MPI on Wednesday, Sept.29 from 1-3 p.m. in 338 Johnston Hall and on the Access Grid. To register or view details visit <http://www.hpc.lsu.edu/training/tutorials/#fall2010-mpi2>. To see all training to be offered this semester please visit: <http://www.hpc.lsu.edu/training/tutorials/>. If you have any questions feel free to e-mail Kathryn Traxler at [ktraxler@cct.lsu.edu](mailto:ktraxler@cct.lsu.edu).
- The National Science Foundation (NSF) has announced a program on collaborative research and education in the area of scalable nanomanufacturing, including the long-term societal implications of the large-scale implementation of nanomanufacturing innovations. If you plan to submit a proposal, send an email to [coneil1@lsu.edu](mailto:coneil1@lsu.edu) with a copy to [sharonb@lsu.edu](mailto:sharonb@lsu.edu) with "LIMITED SUBMISSION: Scalable Nanomanufacturing" as the subject line. In the email, please indicate your interest in submitting a proposal, and send the e-mail by **Friday, Oct. 15, 2010**. You will receive an acknowledgment of your e-mail no later than Monday, October 18, 2010. Additional information: <http://www.nsf.gov/pubs/2010/nsf10618/nsf10618.pdf>
- Tefvik Kosar is organizing a new workshop on "Data Intensive Computing in the Clouds (DATA CLOUD 2011)" in conjunction with the IEEE International Parallel and Distributed Computing Symposium (IPDPS). DataCloud2011 invites authors to submit original and unpublished technical papers. All submissions will be peer-reviewed and judged on correctness, originality, technical strength, significance, quality of presentation, and relevance to the workshop topics of interest. Submitted papers may not have appeared in or be under consideration for another workshop, conference or a journal, nor may they be under review or submitted to another forum during the DataCloud2011 review process. DataCloud2011 also requires submission of a one-page (250 words) abstract one week before the paper submission deadline. For details, please contact him at [kosar@cct.lsu.edu](mailto:kosar@cct.lsu.edu).
- Prior approval is required for Special Meal Requests. Employees who make meal purchases without prior approvals may find that they must cover the cost of any monies spent for an unapproved event out of pocket, especially now that state funds are under a spending freeze. Please contact Susie Poskonka ([susie@cct.lsu.edu](mailto:susie@cct.lsu.edu)) prior to any special meal with visitor(s) to file the appropriate request for approval. Prior approval could take up to one week, so please plan accordingly.

- LSU now has an iPhone app that provides news, video, campus maps, athletics updates, and more. This app is a free download from the App Store or at <http://lsumobileapps.lsu.edu>. The technology coordinators who created this app are adding features, and the app should be available to Blackberry mobile users soon. Please send suggestions for content you would like to see through the LSU app to [lsumobile@lsu.edu](mailto:lsumobile@lsu.edu).
- The Red Stick International Animation Festival has partnered with the Baton Rouge Symphony Orchestra (BRSO) to host a performance of the popular, interactive touring concert Video Games Live on Saturday, Nov. 13, at 7 p.m. in the Baton Rouge River Center Arena. This will be the closing event of the sixth annual festival, which will take place Nov. 10-13, 2010. Video Games Live are on sale through the River Center's [Ticketmaster page](#). There will be a pre-show meet-and-greet event at 5:30 p.m. prior to the performance for all ticket holders. Ticket prices range from \$23 to \$73 per person, depending on seating.
- The Red Stick International Animation Festival has tickets for Princess Ball, an annual highlight of the festival, on sale now! The Princess Ball will take place Sunday, Nov. 7 (the Sunday preceding the festival) from 3-5 p.m. at the Old State Capitol in downtown Baton Rouge. Princess Ball tickets are \$20 per person, and are available for online purchase at <https://www.ticketturtle.com/index.php?ticketing=rsiaf>. Tickets are non-refundable, and will be available for sale until the event reaches capacity at the Old State Capitol.
- The 2011 application for National Science Foundation East Asia and Pacific Summer Institutes for U.S. Graduate Students is now available: [www.nsf.org](http://www.nsf.org). This is a flagship international fellowship program for developing the next generation of globally engaged U.S. scientists and engineers knowledgeable about the Asian and Pacific regions. Fellows are supported to participate in eight-week research experiences at host laboratories in Australia, China, Japan (10 weeks), Korea, New Zealand, Singapore and Taiwan from June to August. The program provides a \$5,000 summer stipend, round-trip airfare to the host location, living expenses abroad, and an introduction to the society, culture, language, and research environment of the host location. The deadline for the application is Nov. 10. The program is intended for U.S. graduate students pursuing studies in fields supported by the National Science Foundation. Women, minorities, and people with disabilities are strongly encouraged to apply. Applicants must be enrolled in a research-oriented master's or Ph.D. program and be U.S. citizens or U.S. permanent residents by the application deadline date. Should you have any questions, please contact the EAPSI Help Desk by email at [eapsi@nsf.org](mailto:eapsi@nsf.org) or by phone at 1-866-501-2922.
- LSU Day, a celebration of the University's sesquicentennial anniversary that highlights the various research and education accomplishments of different areas of campus, will take place on Saturday, Nov. 13 from 9 a.m. until 1 p.m., concurrent with LSU Homecoming. At LSU Day, CCT will host a "Visualize This!" exhibit

showcasing student research projects and visualization work in the LSU Union computer laboratory. Additionally, the Red Stick International Animation Festival will provide a Best of the Fest reel to screen for audiences in the Union Theatre, and Professor Rudy Hirschheim will perform with Capital Gains, a band comprised of faculty from the E.J. Ourso College of Business. If you would like to participate or have your students participate in the “Visualize This!” exhibit, please contact CCT PR Manager Kristen Sunde at [ksunde@cct.lsu.edu](mailto:ksunde@cct.lsu.edu).

- **Supercomputing Conference 2010 Information and Deadlines:**
  - Follow SC10 with social media to get the latest news, information, and deadlines -- Twitter @ SuperComputing; Facebook group: SC10.
  - For CCT staff and faculty planning to attend SC10 in New Orleans, the CCT booth will need volunteers to meet and greet visitors. Shifts will be two hours long. The exhibition days when volunteers are needed are Tuesday, Nov. 16, Wednesday, Nov.17 and Thursday, Nov. 18. Please let CCT Events Coordinator Jennifer Claudet ([Jennifer@cct.lsu.edu](mailto:Jennifer@cct.lsu.edu)) know if you are interested in signing up and she will let you know the available times.
  - A team of LSU students is training to compete in the SC10 Student Cluster Competition. Isaac Traxler, HPC@LSU, is coaching students Jason Kincl, Austin Howick, Kenny Barrons, Tung Le, McKendon LeFleur and Alex Chretien. The team is meeting to practice each Tuesday for the competition, which will take place during the SC10 Conference in New Orleans this November. The students are practicing using high-performance computing clusters and open-source software to solve complex problems. At the competition, which will begin Monday, Nov. 15 during the SC10 Exhibition Opening Gala and will last until the exhibit floor closes on Wednesday evening, Nov. 17, the students will compete in real time as a panel of HPC experts judges them on workload completed, benchmark performance, interviews and outreach. The winning student team will be announced and honored during the SC10 Awards Ceremony on Thursday, Nov. 18. Good luck to the LSU team!
  - **CALL FOR SUBMISSIONS: SC10 Wants to Show Your Work to the World!** Over the years, SC has provided members of the HPC community a chance to showcase their work in the video loops that run before each of the keynote and plenary sessions. This event will return at SC10 in New Orleans, and the conference is taking submissions now. Images can relate to any area of HPC, and will be an opportunity to show the quality and range of work that is ongoing within the community. **Deadline for submissions is Friday, October 15, 2010.** For more information on sharing your work at SC10: <http://sc10.supercomputing.org/?pg=vidcontribute.html>. For questions or to request a participation form, get in touch at: [video@info.supercomputing.org](mailto:video@info.supercomputing.org).

- SC conference attendees are welcome to attend Broader Engagement and Education Program sessions and presentations, including attendees who only have exhibit badges. SC10 also is introducing new registration categories for conference attendees who would wish to participate in associated meals, catered events, or receive program logo merchandise. For more information or to sign up for these programs, please visit:

Registration: <http://sc10.supercomputing.org/?pg=registration.html>

Broader Engagement: <http://sc10.supercomputing.org/?pg=broadeng.html>

Education: <http://sc10.supercomputing.org/?pg=edprog.html>

- Please remember to send your news concerning grants, awards, conferences, or other pertinent information to CCT communication intern Samantha Navarra at [snavarra@cct.lsu.edu](mailto:snavarra@cct.lsu.edu).
- Follow CCT with social media to access photos and see news, events or updated information. These pages are public; you do not need an account to view the information.
  - [Facebook group](#) : LSU Center for Computation & Technology
  - [Twitter](#) : LSUCCT
  - [YouTube channel](#) : LSUCCT

### **Upcoming Grant Deadlines:**

**Note:** Please check the [CCT deadline Web site](#), since it is updated daily.

### CISE Cross-Cutting Programs: FY 2011

December 17 2010 10:00 am

At Most \$ 3,000,000.00 available