



Sept. 19 -25, 2010

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

Clayton M. Christensen, the world's foremost authority on disruptive innovation, advisor to numerous companies and countries, and professor at the Harvard Business School, will deliver the keynote address at SC10, the international conference of high performance computing, networking, storage and analysis, which will take place in New Orleans, Louisiana from November 13–19, 2010.

Christensen's address, titled, "How to Create New Growth Businesses in a Risk-Minimizing Environment" will open the technical program portion of the conference at 8:45 a.m. Tuesday, Nov.16.

Christensen first outlined his disruptive innovation framework in 1997 in his acclaimed book *The Innovator's Dilemma*, which won the Global Business Book Award for best business book of the year. Disruptive innovation describes how innovative products and services take root in simple applications at the bottom of a market and rapidly move "up market" to displace established competitors.

"The HPC community is no stranger to disruptive technologies, but at this point in time, HPC faces a level of disruption like nothing we have ever faced before," said Barry Hess, general chair of SC10 and deputy CIO at Sandia National Laboratories. "As we move forward to a world of sustained petaFLOPS and begin the decade-long transition to exascale, *Disruptive Innovation* and *Disruptive Technologies* will become commonplace terms for all of us. Prof. Christensen is the recognized thought leader on Disruptive Innovation and how to use original ideas and products to solve society's problems. There are many lessons to be learned for all of us in the HPC ecosystem. He will be a timely and thought provoking speaker for the SC audience, which includes many of the technology sector's most innovative thinkers."

Christensen has recently applied the disruptive innovation framework to complicated social problems, including education and healthcare. In the book *Disruptive Class* (2008), he examines the root causes of why schools struggle. In *The Innovator's Prescription* (2009), he analyzes strategies to improve healthcare and make it more affordable.

"Clayton Christensen is the ideal keynote speaker at this year's SC Conference in New Orleans. HPC is experiencing a phase change, the first in almost two decades, as it seeks new paradigms to frame its emerging enabling technologies for continued performance

growth,” said Thomas Sterling, the Arnaud and Edwards Professor of Computer Science at Louisiana State University. “Professor Christensen has articulated the challenges to industry and user communities even as they are driven by new opportunities, and his work provides critical guidance to those balancing the resulting tensions that could determine the ultimate future directions of high technology fields undergoing revolution. His judgments are sobering, and the lessons he teaches may prove essential for achieving commercially viable Exascale performance before the end of this decade.”

“It goes without saying that Clayton Christensen is recognized as a world-class scholar in international business scenes,” said Satoshi Matsuoka, a professor at Tokyo Institute of Technology Global Scientific Information and Computing Center. “His books are considered must-reads by all Japanese business people, as technological innovation is what principally drives the country as one of the world’s leading economy. As supercomputing is experiencing the dawn of the drive towards the Exascale era, many of his principles would likely be necessary to achieve the necessary disruptive technology breakthroughs that the HPC community will be challenged to produce in the upcoming years.”

Christensen is a native of Salt Lake City, Utah, and earned a degree with highest honors from Brigham Young University in 1975. He received a M. Phil. in applied econometrics and the economics of less-developed countries from Oxford University, where he studied as a Rhodes Scholar. He received an MBA with high distinction from the Harvard Business School in 1979.

In 2008, Christensen launched Innosight Institute, a nonprofit think tank, to further examine and apply his innovation frameworks to social issues. He is an advisor to the government of Singapore and serves as a board member at India’s Tata Consulting Services, Franklin Covey, W.R. Hambrecht, and Vanu.

Pats on the Back:

- Professor Thomas Sterling was invited to visit the Information Technology Laboratory at the Army Corps of Engineers facility in Vicksburg, Mississippi Sept. 13 and 14, where he gave a presentation on "Revolution as a Catalyst for the Exascale Computing Phase Change."
- Thomas Sterling was invited to participate in the Clusters, Clouds and Grids for Scientific Computing Workshop near Asheville, North Carolina Sept. 7-10. Sterling participated in a panel on "Igniting Exascale Computing" and addressed the fears of Exascale computing through his presentation, "Exaphobia."

CCT in the News:

LSU professors receive funding to advance digital media and parallel computational science research

Source: [Dr. Dobb's](#)

Red Stick Announces Filmmakers Fund for Festival Participants

Source: [The Advocate](#)

Tickets available animation festival VIP dinner

Source: [The Advocate](#)

LSU Homecoming will celebrate 150 years

Source: [Abbeville Now](#)

Please Note:

- 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) 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.
- The next HPC training is this Wednesday, Sept. 15, from 1-3 p.m. in 338 Johnston Hall and on the Access Grid. To see the description of this tutorial or to register for it please visit <http://www.hpc.lsu.edu/training/tutorials>
- LSU Professor Laura Lindsay's sesquicentennial commemorative book, "Treasures of LSU," goes on sale Sept. 27. LSU faculty, staff and students will receive a 25 percent discount when purchasing this book, which captures outstanding moments and artifacts from LSU's 150-year history, through the end of 2010. "Treasures of LSU" is available in bookstores, through LSU Press, or online at <http://www.lsu.edu/lsupress/bookPages/9780807136775.html>.
- 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.
- There will be a COMSOL Multiphysics Workshop, "Learning by Doing," on Wednesday, Sept 22 from 9 a.m. until noon in 307 Frey Computing Services Building. This workshop teaches skills needed to simulate problems in COMSOL Multiphysics, whether users are new to COMSOL or experienced. Seating is limited, so registration in advance is advised at <http://www.comsol.com/events/cmw/12141/>. To participate in the hands-on session, attendees will need to bring their own laptops. If you have any questions, contact Srikanth Vaidianathan at srikanth@comsol.com or 781-273-3322. For more information on COMSOL, visit www.comsol.com. This workshop is hosted by the LSU Center for Computation & Technology.

- 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. 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, 2010. 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 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.

- **Supercomputing Conference 2010 Information and Deadlines:**

- Follow SC10 with social media to get the latest news, information, and deadlines -- Twitter @ SuperComputing; Facebook group: SC10.
- Check out the 8th issue of the SC10 Newsletter:
<http://sc10.supercomputing.org/files/SC10NewsletterIssue8.html>
- 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, Oct.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.
- 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 PR Manager Kristen Sunde at ksunde@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