# LSU

# CENTER FOR COMPUTATION & TECHNOLOGY
**Interdisciplinary | Innovative | Inventive**

LOUISIANA STATE UNIVERSITY

## CCT Weekly June 19- June 25, 2011

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CCT Weekly June 21, 2011

**Acharya Wins ASME Heat Transfer Memorial Award**
(**Source:** LSU College of Engineering)

LSU mechanical engineering professor, Sumanta Acharya, has been named the 2011 recipient of the American Society of Mechanical Engineers (ASME) Heat Transfer Memorial Award in the science of heat transfer category.

The Heat Transfer Memorial Award is presented to individuals who have made outstanding contributions to the field of heat transfer through teaching, research, practice and design, or a combination of such activities. Each award is based on achievement through publications, patents or inventions in an area of heat transfer or through the application of science or art of heat transfer.

The 2011 ASME Heat Transfer Memorial Award was presented to Acharya for his "seminal and long lasting research contributions in gas turbine heat transfer and combustion, natural and mixed convection, and computational methods enabling improved design of gas turbine engines, enhanced capability of computational fluid dynamics software and a better understanding of complex transport phenomena."

Acharya currently holds the L.R. Daniel professorship in LSU's Department of Mechanical engineering and is the founding director of the Turbine Innovation and Energy Research Center, or TIER, which focuses on energy generation and propulsion research.

For nearly 30 years, Acharya has developed nationally and internationally recognized research programs covering the areas of heat transfer, combustion, fluid mechanics and scientific computation. His scholarly contributions total nearly 150 refereed journal articles, most of which appear in top-tier journals of his field.

"It is extremely gratifying that nearly 30 years of my work at LSU is being recognized nationally and internationally," said Acharya. "When I look back at the three decades that have flown by so quickly, I am proud and grateful of the many dedicated and hard working students who contributed so much to the research we have done here."

Acharya has been recognized with several teaching and research awards in the course of his academic career. He was honored with the Dow Outstanding Teacher and the LSU Alumni Distinguished Faculty awards in 1997. Acharya was named an ASME Fellow in 1999 and earned the LSU Alumni Association Faculty Excellence Award in 2001, among many other distinctions.


**CCT Spotlight:  Shawn Walker**

Shawn Walker, Assistant Professor, joined the CCT in September of 2010 as part of the Computational Mathematics Focus Area.

Shawn is from Danville, Virginia. He and his wife, Mari, are expecting their first child in late October.

Currently, Shawn is working on PDE-constrained optimization of locomotion (at intermediate Reynolds numbers), shape optimization of micro-locomotors and numerical analysis of electrowetting (two-phase) flows.

"I've always been drawn to computers in one way or another since I was a kid. I like the fact that computational mathematics directly impacts many scientific fields and the problems that arise are extremely interesting. Most of all, I love the independence I have," said Shawn.

In his spare time, Shawn enjoys juggling, reading and listening to the band Apocalyptica. Shawn's prescription for life is to have a positive attitude.


**Pats on the back:**

Thanks to the Alice in Computation Land team for putting on a great first camp! Looking forward to Alice Camp #2 in July!


**Please Note:**

• The University will be closed Monday, July 4th in observance of Independence Day.

• On May 9th, Governor Jindal issued Executive Order BJ 2011-7 that directed executive branch agencies including higher education to cease spending in support (non-personnel) categories. Since the University has not received guidance on how to implement this executive order, LSU has developed operating guidelines to meet the spirit of the order through June 30, 2011. These Guidelines apply only to expenditures using State appropriated funds that are included in the University's FY 2010-11 Operating Budget and so identified with a zero in the sixth digit of the account number. Please contact CCT Business Manager Theresa Markey (tmarkey@cct.lsu.edu) with any questions.

• LSU CCT will host two onsite computational science courses being offered by the Virtual School of Computational Science and Engineering. The first course is "Petascale Programming Environments and Tools" (July 12-15). Graduate students, post-docs and professionals from academia, government and industry can gain the skills they need to leverage the power of cutting-edge computational resources at these courses, which are being offered for a $100 per-course fee. Each course is one week long. For more information, visit http://www.cct.lsu.edu/PetascaleLSU.

• The LSU Center for Computation & Technology will host for the first time the LSU iOS Application Boot Camp August 1-12 (10 day camp; not including weekends) on the LSU Campus. This new educational experience offers LSU undergraduates the opportunity to gain knowledge while enhancing their entrepreneurial spirit. Participants will work in groups to create their own operating App and have it loaded on their personal device by end of camp. Registration fee is $300. For more info and to register, visit http://www.cct.lsu.edu/iosbootcamp

• Registration is open for "Stop Motion Summer Camp," July 11-15, 2011. This exciting summer education opportunity offers high school students a unique opportunity to build upon their interests in animation. Registration fee is $125. For more information and to register, visit http://www.cct.lsu.edu/StopMotion

•   Applications for the SC11 Student Volunteer Program are open and close on August 12, 2011. Undergraduate and graduate students are encouraged to apply as volunteers to help with the administration of the conference. In exchange for volunteering, they will receive complimentary conference registration, housing, and most meals. In addition, limited support will be provided for transportation expenses (such as airfare) for international students and students from groups that traditionally have been underrepresented in HPC. For more information visit http://sc11.supercomputing.org/?pg=studvol.html or email student-vols@info.supercomputing.org.

•   LONI Technical Forum scheduled for July 18-19 at Pennington Biomedical Research Center is now accepting registrations. Participation is FREE.  If you wish to suggest a topic for discussion, email Lonnie Leger at Lonnie@lsu.edu.  For more information, visit: http://www.cct.lsu.edu/LONIForum2011

•   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 two weeks, so please plan accordingly.

•   Please remember to send your news concerning grants, awards, conferences, or other pertinent information to CCT Event Coordinator Jennifer Fontenot at jennifer@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.
o   Facebook group : LSU Center for Computation & Technology
o   Twitter :  LSUCCT
o   YouTube channel : LSUCCT


**Upcoming events:**

**May 30- July 29:**  NSF Research Experience for Undergraduates
**July 11-15:**  Stop Motion Animation Summer Camp
**July 12-15:**  Petascale Programming Environments and Tools
**July 18-22:**  Alice in Computation Land Summer Camp
**July 18-19:**  LONI Tech Forum
**July 31- Aug 6:**  Computational Thinking from a Parallel Perspective
**August 1- 12:**  iOS Boot Camp for LSU Undergraduates
**August 9-11:**  SIGGRAPH (Booth #841), Vancouver, Canada


**Upcoming Grant Deadlines:**
**Note:** Please check the CCT deadline Web site, since it is updated daily.
Software Infrastructure for Sustained Innovation (SI2)
July 18, 2011 10:00 am
At Most $ 1,000,000.00 available

Faculty Early Career Development (CAREER) Program
July 23, 2011 10:00 am
At Least $ 400,000.00 available


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