

Welcome to Hot Chips 17!



It's that time of the year again. We have assembled for you a mix of technical presentations representing the latest advances in the art of silicon design in the computer industry. HotChips provides an unparalleled opportunity to hear and meet with our industry's leaders, thinkers, engineers, and students, all in the serene surroundings of Stanford University.

We have tutorials on the currently hot topics of Virtualization and Low Power Design. Monday's Keynote by William Holt, VP and GM of Intel's Technology and Manufacturing Group, takes a deep look at the challenge of keeping tomorrow's hot chips cool even while Moore's Law sees us continuing to add transistors and functionality. Tuesday's Keynote address by David Kirk, Chief Scientist of Nvidia, analyzes the challenges of harnessing the increasing parallelism in today's multi-core, multi-threaded processors. The program starts off on Monday with revelations on the Cell game console silicon designs from Sony, IBM, Toshiba, and wraps up on Tuesday with technical details on Microsoft's silicon counterpoint for their Xbox 360. In between those two bookends, there are an intriguing variety of presentations on other leading-edge topics from dynamically configurable processors to dedicated media processors to optical and analog silicon to the latest multi-core processors and chipsets.

Alan Smith and John Sell led the program committee that put together this exciting conference program for you. Given the fast pace of innovation in our industry, putting together a representative program that reflects the latest state of the art is not a simple task, yet this year's program committee has once again done a superb job.

Credit goes to the organizing committee for all the logistical issues related to presenting this conference. Yusuf Abdulghani's help as Vice Chair was crucial in all matters, including his Wiki tutorial. With Lily Jow as Finance Chair, our finances were in solid hands. Ravi Rajamani kept the registration process smooth and flawless. Donna Wilson handled publicity issues meticulously. Amr Zaky ensured we had a proud list of happy sponsors. Gordon Garb perfectly handled the critical task of pulling the publications together in time. Allen Baum made sure we were advertised wherever it mattered. Gail Sachs kept track of all the souvenirs and gift items. Our taste buds will thank Bob Lashley. Galina Moskovkina has kept the web pages up-to-date, whereas, Randy Neff kept all our volunteers in high spirits.

Special thanks to all our sponsors: EETimes, Intel Corporation, MIPS Technologies, Tensilica, IPFlex, Circuit Cellar and Nvidia. Their support is invaluable to our success and is deeply appreciated.

I'd like to thank my predecessors who have kept the conference going and growing all these years; a special thank you to Allen Baum and Bob Lashley, who were always available to offer me help on almost any topic.

Finally, I must thank each and every one of our attendees who have continued to motivate and inspire us continuously over the last 17 years.

I wish you a very productive and enjoyable conference.

See you again next year!

Pradeep K. Dubey

General Chair
Hot Chips 17