



INTERNATIONAL
SUPERCOMPUTING CONFERENCE

May 31 – June 3, 2010, Hamburg, Germany

Press Release

For immediate release

ISC'10 Keynote Speakers to Share their Vision and Global Perspective on High Performance Computing

HAMBURG, Germany, March 15, 2010 — The 25th International Supercomputing Conference – ISC'10 – will feature four keynote presentations, one each morning of the conference, focusing on a wide spectrum of topics, from efficient “scaling up” and “scaling out” of HPC servers to how IT and the Internet are increasingly modernizing Chinese society in terms of commerce and politics.

ISC, which will be held May 30 – June 3 in Hamburg, will celebrate its 25th Anniversary with a power-packed conference. ISC has a well-established reputation for presenting well-founded, precise and up-to-date information in an environment that encourages informal conversations and sharing of ideas. ISC will also feature a world-class exhibition parallel to the Conference, participated by 140 industrial and research exhibitors.

Many thought-provoking sessions are scheduled for ISC'10, but none are likely to spark more discussion than the keynote addresses.

Below are short descriptions for each of the talks:

Monday, May 31: *Kirk B Skaugen*, the Vice President of Intel Architecture Group and General Manager of the Data Center Group, Intel, will discuss the “*HPC Technology – Scale-Up & Scale-Out*”. In his presentation, Skaugen will talk about the current state of the HPC technologies and trends that will help accelerate deployment (of affordable HPC systems) in the server market. On one hand, the performance trend of HPC systems could be defined as “scale up”. The industry manufacturing these HPC systems was and still is focused on high-end systems that have broken the Petaflops barrier and are now aiming at the Exascale boundary. On the other hand, the affordability of systems in the Terascale range now makes “scale out” (spreading the HPC computing base) even more possible than before.

Tuesday, June 1: *Prof. Dr. Helmut Merkel*, the Manager and Shareholder of EurAsia Global Concept in Peking, China, will provide an insight into “*How the IT/Internet Revolution Changes the Chinese Society*”. There are 380 million Internet users in China, making it the world's biggest online community. Merkel observes that



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the Chinese are using the Internet for online commerce and to exchange political views. Online payment systems allow customers to use e-commerce platforms like TaoBao, producing a market volume of about 35 billion Euros in 2010 alone. Apart from that, the Internet is also empowering citizens to exert pressure on the government and influence the country's politics. A real revolution based on Internet and strong computing power is rapidly changing Chinese society.

Wednesday, June 2: *Prof. Dr. Thomas Sterling*, the Arnaud & Edwards Professor of Computer Science at Louisiana State University, will share his views in a look at the past year – an ISC tradition since 2003. In his talk *“HPC Achievement & Impact – 2010”*, Sterling will examine the beginning of the 2 A.P. (after Petaflops) Era, which promises to be an exciting and a dramatic leap in technology. New multicore chip architectures, the building blocks of many of the prominent supercomputers worldwide, will be identified and described to track the growth and trends in performance opportunity. The presentation will conclude with the “Canonical HPC System” a design point that represents the more widely used components, sources, and scales over the preceding year.

Thursday, June 3: *Prof. Dr. Horst Zuse*, Professor at Technical University Berlin, School of Applied Sciences in Lausitz, Germany, will take attendees down the memory lane with his interesting talk on the *“TOP5 List of the Early Computers”*. Zuse, the son of Konrad Zuse (the creator of the first programmable computer, the Z3) will, on his father's birth centennial, illustrate his father's contributions to the computer development (Z1-Z4, from 1936 – 1945) with pictures and videos. Zuse will also present the development of the secret COLOSSUS-Project (UK, 1943), Howard Aiken's Mark I (USA, 1944), and the ENIAC (USA, 1944). It is still not well known, that Konrad Zuse founded a computer business in 1949 that produced 251 computers that are worth 51 Million Euros.

An overview of the ISC'10 Conference Program, including the Keynote Sessions, can be found at <http://www.supercomp.de/isc10/Program/Overview>.

Early bird registration for ISC'10 continues through April 30, and in addition to reduced rates, a number of one-day options for both the program and exhibition are available. For complete details on registration categories and rates, go to: <http://www.supercomp.de/isc10/Registration/Registration-Fees>



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About ISC'10

Now in its 25th year, ISC is the world's oldest and Europe's most important conference for the HPC community, offering a strong five-day technical program with a wide range of expert speakers and exhibits from leading research centers and vendors. A number of events complement the technical program, including Tutorials, Scientific Day, Birds of a Feather (BoF) sessions, a research poster session, Exhibitor Forum and the popular "Hot Seat Sessions" featuring leaders from industry and research centers. The conference has experienced tremendous growth over the last few years, with an estimated 2,000 participants from around the world expected to convene in Hamburg, May 30 –June 3.

ISC'10 is open to IT-decision makers, members of the HPC global community and other interested parties. The ISC exhibition allows analysts, decision-makers from the automotive, defense, aeronautical, gas & oil, banking and other industries; solution providers, data storage suppliers, distributors, hardware and software manufacturers, the media, scientists and universities to see and learn firsthand about new products, applications and technological advances in the supercomputing industry today.

For registration, conference and exhibition information, please visit <http://www.isc10.org/>.

Press Accreditation at: <http://www.supercomp.de/isc10/ISC-News-Press/For-Journalists/Accreditation>

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