

Peter Ho Addresses HPC Future Plans at Supercomputing Frontiers

March 14, 2017

Singapore, March 14, 2017 — Stakeholders of the National Supercomputing Centre (NSCC) Singapore aim to build on its early growth momentum to elevate supercomputing in Singapore into the next phase. This includes dovetailing NSCC's future plans into the S\$19 billion national RIE2020 masterplan, said Peter Ho, Chairman of NSCC Steering Committee.

Giving the opening address at the third edition of the Supercomputing Frontiers (SCF) Conference yesterday, Mr Ho observed that "*Singapore is only at the start of developing and implementing a HPC strategic roadmap*".

"For the NSCC to realise the vision of catalysing supercomputing in Singapore, its team will have to bootstrap on the knowledge and experience of others," he added.

The key stakeholders of the NSCC Singapore are the Agency for Science Technology and Research (A*STAR), Nanyang Technological University (NTU), National University of Singapore (NUS), and Singapore University of Technology and Design (SUTD).

Singapore enters the petascale supercomputing league, first in Southeast Asia

Addressing the objectives of the four-day Conference, Mr Ho said that he hoped that the conference would produce "*rich discussions*". "*It is through such discussions that I hope we will all learn something about what the future holds for supercomputing, and how we can position ourselves, not just in Singapore, but also in our respective countries, to exploit the power of supercomputing to improve competitiveness and the lives of our people.*", Mr Ho added.

One key highlight of the SCF2017 opening ceremony is the launch of the inaugural SCF/NSCC Awards, which aim to promote excellence in High Performance Computing (HPC), networking, storage and visualisation in the areas of Singapore's research, innovation, education and enterprise. This award also aims to give recognition to research and commercial efforts that tap on ASPIRE 1's computational power to drive innovation, raise productivity and improve lives.

Notable winners of the inaugural awards are:

- Supercomputing Frontiers Singapore Distinguished Service Award, Mr. Lim Chuan Poh, Chairman, A*STAR
- Supercomputing Frontiers Singapore Visionary Award, Dr. Raj Thampuran, Managing Director, A*STAR
- NSCC Outstanding HPC Scientific Award – Data Storage Institute, A*STAR
- NSCC Outstanding HPC Industry Application Award – Keppel Offshore and Marine Technology Centre (KOMtech) Global Gene Corp Pte Ltd (Honourable Mention)
- NSCC Outstanding HPC Innovation Award – Institute of High Performance Computing GenomeAsia100K (Honourable Mention)

The winners were carefully handpicked through a rigorous process by a seven-member judging panel and received the respective awards from Mr Ho. Other notable award submissions include:

Keppel Offshore & Marine Technology Centre (KOMtech)'s winning project, which made extensive use of NSCC's HPC resources to optimise the designs of rigs and vessels in the product development process.

Tan Tock Seng Hospital's use of HPC technology combined with whole-genome-sequencing to provide useful information for on-the-ground infection control, by determining the transmission routes of bacteria that are invisible to the human eye.

The SCF 2017 is held at the Matrix@Biopolis and is attended by more than 450 participants from 12 countries. The focus on this year's conference is on global trends and innovations in high performance computing.
