

IHPC Seminar Series ***presents***

The Earth Simulator : A Paradigm Shift in Simulation Science

The Earth Simulator (ES) was *born* in Yokohama, Japan in March 2002. It is capable of simulating the entire earth system, helping us understand and predict environmental changes. Professor Sato will present the results obtained from the ES on typhoon prediction in a global atmosphere-ocean circulation, seismic wave propagations causing local damages, as well as automobile collision simulations. Professor Sato will also propose an innovative architecture of the Macro-Micro Interlocked Simulator to make realistic predictions of environmental changes. Furthermore, he will touch on how the ES can be applied to the manufacturing industry.

Date : Tue, 6 Dec 05
Time : 9.00 am
Venue : **Exploration Theatrette (Level 4)**
Matrix Building, Biopolis
30 Biopolis Street
Singapore 138671
Registration : **Admission is free.** Please register online via www.ihpc.a-star.edu.sg

Professor Tetsuya Sato



Director-General
The Earth Simulator Center/Japan Agency for Marine-Earth
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Professor Sato devotes his research career to the development of simulation science. He has received the Nishina Memorial Award (1986), Computerworld Honors 21st Century Achievement Award (2003), Tokyo Creation Award (2004) and the John Dawson Prize among many other awards.

Professor Sato received his Bachelor, Masters and PhD degrees in Electronics from the Kyoto University in 1963, 1965 and 1970, respectively. He started his career as a research associate at the Department of Physics, Kyoto University. In 1971, he joined the Aeronomy Laboratory of NOAA, Boulder, Colorado, USA as a NRC-NAS resident research associate for a year and spent another year at the Max-Planck-Institute for Extraterrestrische Physik, Garching, Germany as an Alexander Von Humboldt *stipendiat*. He joined the Geophysics Research Laboratory, University of Tokyo as an Associate Professor before moving on to the Institute for Fusion Theory, Hiroshima University as a Professor. He was also a Visiting Scientist at the Plasma Physics Laboratory, Princeton University and Bell Laboratories. He has served as Professor and Director of the Theory and Computer Simulation Center, National Institute for Fusion Science. Since 2002, he has been the Director-General of the Earth Simulator Center of JAMSTEC.

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