



Monday, June 23, 2014

■ Opening Session

June 23, 2014, 09:00 am - 10:30 am

Hall 1, CCL

Welcome & Introduction to ISC'14

09:00 am - 09:15 am

Welcome Address

09:15 am - 09:25 am

ISC PRACE Award & Gauss Award

09:25 am - 09:30 am

TOP500 Awarding

09:30 am - 09:50 am

Highlights of the 43rd TOP500 List

09:50 am - 10:15 am

Remembering ISC Founder Hans Meuer

10:15 am - 10:30 am

■ ISC'14 Conference Keynote

June 23, 2014, 11:00 am - 12:00 pm

07:30 am - 11:00 am Welcome Coffee

08:00 am - 12:00 pm Welcome Coffee

12:00 pm - 01:00 pm Lunch

Hall 1, CCL

Large-Scale Computing in Biomedicine & Bioengineering



ISC Vendor Showdown 01

June 23, 2014, 01:00 pm - 03:00 pm

12:00 pm - 01:00 pm Lunch

03:00 pm - 04:00 pm Coffee Break

Hall 1, CCL

Introduction

01:00 pm - 01:05 pm

Intel

01:05 pm - 01:17 pm

Supermicro

01:17 pm - 01:29 pm

Mellanox

01:29 pm - 01:41 pm

Huawei

01:41 pm - 01:53 pm

Cray

01:53 pm - 02:05 pm

NVIDIA

02:05 pm - 02:17 pm

Fujitsu

02:17 pm - 02:29 pm

DataDirect Networks

02:29 pm - 02:41 pm

IBM

02:41 pm - 02:53 pm

Voting Results & Awarding

02:53 pm - 03:00 pm

Visualization & Caves

June 23, 2014, 01:00 pm - 02:00 pm

12:00 pm - 01:00 pm Lunch

Hall 2, CCL

Visual Analysis of Big Personal Health Data

01:00 pm - 01:30 pm

Interactive Parallel Visualisation & Remote Hybrid Rendering

01:30 pm - 02:00 pm



■ Research Papers 01

PRACE ISC & Gauss Awards

June 23, 2014, 01:00 pm - 03:00 pm

12:00 pm - 01:00 pm Lunch

03:00 pm - 04:00 pm Coffee Break

Hall 4, CCL

PRACE ISC Awarding

01:00 pm - 01:15 pm

PRACE ISC Award Winning Paper: Sustained Petascale Performance of Seismic Simulations with SeisSol on SuperMUC

01:15 pm - 02:00 pm

Gauss Awarding

02:00 pm - 02:15 pm

Gauss Award Winning Paper: Exascale Radio Astronomy: Can We Ride the Technology Wave?

02:15 pm - 03:00 pm

■ Research Posters & HPC in Asia Posters

June 23, 2014, 01:00 pm - 06:00 pm

12:00 pm - 01:00 pm Lunch

03:00 pm - 04:00 pm Coffee Break

Hall 4 Foyer, CCL

■ BoF 01

June 23, 2014, 01:00 pm - 02:00 pm

12:00 pm - 01:00 pm Lunch

Hall 5, CCL

■ Jet Engines Take Off in the Cloud (Panel)

June 23, 2014, 02:00 pm - 03:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 2, CCL

■ Bof 02

June 23, 2014, 02:00 pm - 03:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 5, CCL

■ Exhibition

June 23, 2014, 03:00 pm - 08:30 pm

03:00 pm - 04:00 pm Coffee Break

Exhibition Hall, Hall 2

■ HPC Startups: Innovation Brought to Life

June 23, 2014, 03:15 pm - 04:30 pm

03:00 pm - 04:00 pm Coffee Break

Exhibition Hall #660, Hall 2



ISC Vendor Showdown 02

June 23, 2014, 04:00 pm - 06:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 1, CCL

Introduction

04:00 pm - 04:05 pm

Bull

04:05 pm - 04:17 pm

Samsung

04:17 pm - 04:29 pm

T-Platforms

04:29 pm - 04:41 pm

Toshiba

04:41 pm - 04:53 pm

Hewlett-Packard

04:53 pm - 05:05 pm

Dell

05:05 pm - 05:17 pm

RSC

05:17 pm - 05:29 pm

NEC

05:29 pm - 05:41 pm

D-Wave Systems

05:41 pm - 05:53 pm

Voting Results & Awarding

05:53 pm - 06:00 pm

Programming Models & Tools

June 23, 2014, 04:00 pm - 05:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 2, CCL

OpenACC & the Evolution of the Modern GPU

04:00 pm - 04:20 pm

Is PGAS Ready for Prime Time?

04:20 pm - 04:40 pm

OpenMP 4.0 & Beyond

04:40 pm - 05:00 pm



■ Research Poster Session

June 23, 2014, 04:00 pm - 06:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 4, CCL

ISC'14 Research Poster Awarding

04:00 pm - 04:04 pm

(01) ISC'14 Award Winning Poster: OpenFFT: An Open-Source Package for 3-D FFTs with Minimal Volume of Communication

04:04 pm - 04:29 pm

(02) Application Tracking Using the Ichnaea Tools

04:29 pm - 04:36 pm

(03) Compression By Default Reducing Total Cost of Ownership of Storage Systems

04:36 pm - 04:43 pm

(04) Coupled Simulation of External Aerothermodynamics & Internal Heat-and-Mass Transfer in Hypersonic Vehicle Composite Constructions

04:43 pm - 04:50 pm

(05) Dynamic Parallelization of Computational Code as a Phase of Just-in-Time Compilation

04:50 pm - 04:57 pm

(06) Library for Accelerated Math Applications (LAMA) for Heterogeneous HPC Applications

04:57 pm - 05:04 pm

(07) Managed Database Caching for Massively Parallel Sequence Alignment Tasks

05:04 pm - 05:11 pm

(08) An Efficient Sparse Matrix Multiplication for Deep Neural Network-Based Applications

05:11 pm - 05:18 pm

(09) Particle-in-Cell Plasma Simulation on CPUs, GPUs & Xeon Phi Coprocessors

05:18 pm - 05:25 pm

(10) Performance Implications of NUMA & Multi-Core in Lustre's Metadata Server

05:25 pm - 05:32 pm

(11) Predictive Performance Tuning of OpenACC Accelerated Applications

05:32 pm - 05:39 pm

(12) SIOX: An Infrastructure for Monitoring and Optimization of HPC-I/O

05:39 pm - 05:46 pm

(13) Splotch on the Xeon Phi

05:46 pm - 05:53 pm

(14) The p196_mpi Implementation of the Reverse-And-Add Algorithm for the Palindrome Quest

05:53 pm - 06:00 pm



BoF 03

June 23, 2014, 04:00 pm - 05:00 pm

03:00 pm - 04:00 pm Coffee Break

Hall 5, CCL

Young & Bright HPC Researchers

June 23, 2014, 05:00 pm - 06:00 pm

Hall 2, CCL

Evolutionary Adaptation of HPC Applications to Revolutionary System Changes

05:00 pm - 05:20 pm

Attacks on Small Characteristic Finite Fields for Discrete Logarithm Cryptography

05:20 pm - 05:40 pm

FLOPs & Bandwidth, Are We Measuring the Right Metrics?

05:40 pm - 06:00 pm

BoF 04

June 23, 2014, 05:00 pm - 06:00 pm

Hall 5, CCL

ISC'14 Special

June 23, 2014, 06:15 pm - 06:45 pm

Hall 1, CCL

ISC Welcome Party

June 23, 2014, 06:30 pm - 08:30 pm

Exhibition Hall, Hall 2