
Tuesday, June 20, 2017

■ Memory Outlook for HPC Systems

June 20, 2017, 08:30 am - 10:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Panorama 1, Forum

New Opportunities to Deal with Reducing Energy per Operation in HPC Systems

08:30 am - 08:45 am

Dave Ditzel, Esperanto Technologies

Memory Systems - From Devices to Systems

08:45 am - 09:00 am

Bruce Jacob, University of Maryland

Samsung HPC Memory Update

09:00 am - 09:15 am

Duc Nguyen, Samsung

Memory-Centric Server Architecture

09:15 am - 09:30 am

Dr. Babak Falsafi, EPFL

128 Bit, Exascale Memory Reference Models for Next Generation, ExaByte Capacity Physical Memory Systems

09:30 am - 09:45 am

Steve Wallach, Micron

Questions & Answers

09:45 am - 10:00 am

■ **Quantum Annealing & Its Applications for Simulation in Science & Industry**

June 20, 2017, 08:30 am - 10:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Panorama 2, Forum

An Introduction to Quantum Annealing

08:30 am - 08:45 am

Prof. Dr. Kristel Michielsen, JSC

Qubits, Couplers & Quantum Computing in 2017

08:50 am - 09:10 am

Dr. Denny Dahl, D-Wave Systems

Quantum Annealing for Aerospace Planning Problems

09:15 am - 09:35 am

Dr. Tobias Stollenwerk, DLR

Maximizing Traffic Flow Using the D-Wave Quantum Annealer

09:40 am - 10:00 am

Dr. Florian Neukart, VW

Dr. Christian Seidel, VW

■ **Research Papers 02 - Programming Models**

June 20, 2017, 08:30 am - 10:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Panorama 3, Forum

EvoGraph: On-The-Fly Efficient Mining of Evolving Graphs on GPU

08:30 am - 09:00 am

Shuaiwen Song, PNNL

Metrics for Energy-Aware Software Optimisation

09:00 am - 09:30 am

Stephen I. Roberts, University of Warwick

Global Extensible Open Power Manager: A Vehicle for HPC Community Collaboration Toward Co-Designed Energy Management Solutions

09:30 am - 10:00 am

Jonathan Eastep, Intel

■ **Benefits of Exascale Computing for Industrial Users**

June 20, 2017, 08:30 am - 10:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Analog 1+2 INDUSTRIAL DAY, Forum

Keynote: High-Performance Computational Fluid Dynamics for Future Aircraft Design

08:30 am - 09:15 am

Prof. Dr.-Ing. Norbert Kroll, DLR

Exa2Ct - Bootstrapping Exascale Codes for Industry

09:15 am - 09:35 am

Dr. Christian Simmendinger, T-Systems

Improving the Scalability of STAR-CCM+

09:35 am - 09:55 am

Keith Foston, CD-adapco

■ Research Posters - Presentations & Awards

June 20, 2017, 08:30 am - 10:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Substanz 1+2, Forum

Introduction

08:30 am - 08:35 am

Prof. Dr. Matthias Müller, RWTH Aachen University

Dr. Jeffrey Vetter, ORNL & University of Tennessee-Knoxville

(RP01) Optimization of Special Functions for Quantum Chemistry

08:35 am - 09:45 am

Dr. Vladimir Mironov, MSU

(RP02) Implementation & Evaluation of 2.5D Matrix Multiplication on K Computer

08:35 am - 09:45 am

Dr. Daichi Mukunoki, RIKEN AICS

(RP03) A Portable Distributed Sparse Grid Density Estimation for Big Data Clustering

08:35 am - 09:45 am

David Pfander, University of Stuttgart

(RP04) Geological Processing Performance Analysis on Different Hardware Environments

08:35 am - 09:45 am

Ekaterina Tyutlyaeva, RSC

(RP05) Optimizing Smoothed Particle Hydrodynamics Code Phantom on Haswell & KNL

08:35 am - 09:45 am

Charlene Yang, Pawsey Supercomputing Centre

(RP06) Directory/Cache API for Sharing Data in Distributed Memory Systems

08:35 am - 09:45 am

Bernd Lörwald, Fraunhofer ITWM

(RP07) Evaluation of Graph Application Using Tightly Coupled Accelerators

08:35 am - 09:45 am

Prof. Dr. Toshihiro Hanawa, University of Tokyo

(RP08) Pascal vs KNL: Performance Evaluation with ICCG Solver

08:35 am - 09:45 am

Tetsuya Hoshino, University of Tokyo

(RP09) From Processing-in-Memory to Processing-in-Storage

08:35 am - 09:45 am

Roman Kaplan, Technion

(RP10) MPI RMA as a Directory/Cache Interoperability Layer

08:35 am - 09:45 am

Dr. Nick Brown, EPCC

(RP11) Benefit of In-Memory Storage for MPI-IO Applications

08:35 am - 09:45 am

Eugen Betke, DKRZ

(RP12) On-Line Monitoring Framework

08:35 am - 09:45 am

Eugen Betke, DKRZ

(RP13) Enhanced Adaptive Compression in Lustre

08:35 am - 09:45 am

Anna Fuchs, University of Hamburg

(RP14) Event Pattern Identification in Anonymized System Logs

08:35 am - 09:45 am

Siavash Ghiasvand, TU Dresden/ZIH

(RP15) Decoupling the Selection of Compression Algorithms from Required Precision with the Scientific Compression Library (SCIL)

08:35 am - 09:45 am

Dr. Julian Kunkel, DKRZ

(RP16) Optimizing Massive Data Access for Large Scale Population Genomics Analysis Using HDF5

08:35 am - 09:45 am

Dr. Hui Yan, NSCCGZ

(RP17) How Does Memory Affect the Performance of Tasks?

08:35 am - 09:45 am

German Ceballos, Uppsala University

(RP18) FortranTestGenerator: Automatic & Flexible Unit Test Generation for Legacy HPC Code

08:35 am - 09:45 am

Dr. Julian Kunkel, DKRZ

(RP19) Towards Performance Portability for Atmospheric & Climate Models with the GGDML DSL

08:35 am - 09:45 am

Nabeeh Jumah, University of Hamburg

(RP20) A Domain Specific Language for Performance Portable Molecular Simulations

08:35 am - 09:45 am

Dr. Eike Hermann Müller, University of Bath

(RP21) INTERTWinE: Resource Manager APIs

08:35 am - 09:45 am

Xavier Teruel, BSC

PRACE Award Winning Poster Presentation

09:45 am - 09:55 am

Closing & Transition to the Poster Reception

09:55 am - 10:00 am

Prof. Dr. Matthias Müller, RWTH Aachen University

Dr. Jeffrey Vetter, ORNL & University of Tennessee-Knoxville

BoF 05

June 20, 2017, 08:30 am - 09:30 am

Kontrast, Hall 3.0

Dr.-Ing. Guido Juckeland, Helmholtz-Zentrum Dresden-Rossendorf

Prof. Michael Wolfe, NVIDIA/PGI

Dr. Bronis R. de Supinski, LLNL

Dr. Christian R. Trott, Sandia National Laboratories

Prof. Dr. Thomas Schulthess, CSCS

Dr. Peter Messmer, NVIDIA

BoF 06

June 20, 2017, 09:30 am - 10:30 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Kontrast, Hall 3.0

Dr. Philipp Neumann, DKRZ

Dr. Joachim Biercamp, DKRZ

Reception & ISC Research Poster Awards

June 20, 2017, 10:00 am - 11:00 am

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

Foyer 0, Forum

Project Posters

June 20, 2017, 10:00 am - 03:15 pm

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

Booth #L-212, Hall 3.0

Exhibition

June 20, 2017, 10:00 am - 06:00 pm

07:30 am - 10:00 am Welcome Coffee

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Exhibition Hall, Hall 3.0

Exhibitor Forum 02

June 20, 2017, 10:20 am - 05:40 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Booth #M-210, Hall 3.0

Fujitsu: HPC Universe Expansion

10:20 am - 10:40 am

Dr. Pierre Lagier, Fujitsu

EXTOLL: Managing EXTOLL Network Operations with EMP

10:40 am - 11:00 am

Prof. Dr. Ulrich Brüning, University of Heidelberg & EXTOLL

Dr. Mondrian Nüssele, EXTOLL

GiDEL: Optimizing Algorithms for FPGA Processing

11:00 am - 11:20 am

Reuven Weintraub, GiDEL

D-Wave Systems: Quantum Computing for the Real World Today

11:20 am - 11:40 am

Dr. Edward Dahl, D-Wave Systems

ExaScaler/PEZY Computing: ZettaScaler-2.0 & PEZY-SC2

11:40 am - 12:00 pm

Motoaki Saito, ExaScaler/PEZY Computing

IBM: IBM Solutions for HPC & Technical Computing

12:00 pm - 12:20 pm

Brett M. Newman, IBM

NVIDIA: The Convergence of HPC & Deep Learning

12:20 pm - 12:40 pm

Axel Koehler, NVIDIA

NetApp: Taking Technical Computing & Analytics to the Next Level

12:40 pm - 01:00 pm

Stan Skelton, Net App

Cavium: ThunderX2 : Accelerating ARM Adoption in Mainstream HPC Applications

01:00 pm - 01:20 pm

Rishi Chugh, Cavium

DDN Storage: Flash-Native Caching for Predictable Job Completion in Data-Intensive Environments

01:20 pm - 01:40 pm

Dr. James Coomer, DDN Storage

Intel: HPC, HPDA & AI - Market Opportunities, Intel Technologies & Solutions

01:40 pm - 02:00 pm

Stephan Gillich, Intel

Samsung Semiconductor Europe: Samsung Memory Update

02:00 pm - 02:20 pm

Thomas Arenz, Samsung

HGST, a Western Digital Brand: Facing the Challenges of HPC with Big Data Flash

02:20 pm - 02:40 pm

Manfred Berger, HGST, a Western Digital Brand

E4 Computer Engineering: Achieving Powerful, Energy-Efficient & Scalable HPC Via Innovative Technologies (Not to Mention Cost-Effectiveness...)

02:40 pm - 03:00 pm

Luciano Fontana, E4 Computer Engineering

Fabrizio Magugliani, E4 Computer Engineering

Hewlett Packard Enterprise: From Today's HPC-Portfolio Towards "The Machine" & Exascale Systems

03:20 pm - 03:40 pm

Craig Yamasaki, HPE

Google: Scalable High-Throughput Computing with Preemptable Virtual Machines

03:40 pm - 04:00 pm

Kevin Kissell, Google

Penguin Computing: TBA

04:00 pm - 04:20 pm

Omnibond: A Vision: Seamless Integration of On Premise & Cloud HPC

04:20 pm - 04:40 pm

Boyd Wilson, Omnibond

CoolIT Systems: From Chip to Atmosphere - The Future of Data Center Cooling

04:40 pm - 05:00 pm

Joerg Desler, STULZ

Geoff Lyon, CoolIT Systems

Rausch Netzwerktechnik: Quobyte - The Data Center File System

05:00 pm - 05:20 pm

Felix Hupfeld, Quobyte

RSC Technologies: Universal & Ultra-Compact RSC Tornado Liquid Cooled HPC Solution: Skylake Ready

05:20 pm - 05:40 pm

Dr. Alexander Moskovsky, RSC

Alexey Shmelev, RSC

 **BoF 07**

June 20, 2017, 10:30 am - 11:30 am

10:00 am - 11:00 am Coffee Break

Kontrast, Hall 3.0

Dr. David Brayford, LRZ

Chulho Kim, Lenovo

Dr. Karl W. Schulz, Intel

Prof. Dr. Thomas Sterling, Indiana University

■ **Processor Technologies for HPC & AI - Convergence or Divergence?**

June 20, 2017, 11:00 am - 12:30 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

Panorama 1, Forum

Dawn of Smart Supercomputing: How HPC & AI Are Engaging in a Virtuous Cycle That Will Leave Both Forever Transformed & Immeasurably Improved

11:00 am - 11:30 am

Steve Oberlin, NVIDIA

Achieving AI Scale with HPC

11:30 am - 12:00 pm

Dr. Pradeep Dubey, Intel

Fujitsu HPC & AI Processors

12:00 pm - 12:30 pm

Takumi Maruyama, Fujitsu

■ **Convergence of High-End Computing & Data in Materials Science**

June 20, 2017, 11:00 am - 12:30 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

Panorama 2, Forum

Materials Discovery, Data on Demand & Open Science

11:00 am - 11:30 am

Nicola Marzari, EPFL

From High-Performance Computing to Data-Driven Routes Towards New Insight into Materials Properties

11:30 am - 12:00 pm

Claudia Draxl, Humboldt University Berlin & Fritz Haber Institute of the Max Planck Society

Federated Data & Compute Services for Materials Science & the Like

12:00 pm - 12:30 pm

Prof. Dr. Dirk Pleiter, JSC

■ **Research Papers 03 - Applications I**

June 20, 2017, 11:00 am - 12:30 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

Panorama 3, Forum

A New Parallel Research Kernel to Expand Research on Dynamic Load-Balancing Capabilities

11:00 am - 11:30 am

Evangelos Georganas, Intel

Neuromapp: A Mini-Application Framework to Improve Neural Simulators

11:30 am - 12:00 pm

Timothée Ewart, EPFL

Fully Resolved Simulations of Dune Formation in Riverbeds

12:00 pm - 12:30 pm

Christian Godenschwager, University of Erlangen-Nuremberg

■ **Infrastructure, Services & Software for Industrial HPC**

June 20, 2017, 11:00 am - 12:30 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

Analog 1+2 INDUSTRIAL DAY, Forum

Aspects of the Procurement of HPC Clusters - How to Balance Requirements & Suppliers

11:00 am - 11:20 am

Jan Wender, Atos

Important Aspects for HPC Infrastructure Solutions Procurements in Industry

11:20 am - 11:40 am

Eric Schnepf, Fujitsu

High Performance Computing Delivered by the 3DEXPERIENCE Platform

11:40 am - 12:00 pm

Dr. Felix Wolfheimer, Dassault Systems

Discussion

12:00 pm - 12:30 pm

■ **BoF 08**

June 20, 2017, 11:00 am - 12:00 pm

10:00 am - 11:00 am Coffee Break

Substanz 1+2, Forum

Dr. Julian Kunkel, DKRZ

Dr. Jay Lofstead, Sandia National Laboratories

Dr. John Bent, Seagate Government Solutions

■ **Research Posters (+ PhD Forum Posters)**

June 20, 2017, 11:00 am - 04:45 pm

10:00 am - 11:00 am Coffee Break

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Foyer 0, Forum

■ **BoF 09**

June 20, 2017, 11:30 am - 12:30 pm

12:30 pm - 01:45 pm Lunch

Kontrast, Hall 3.0

Hans-Christian Hoppe, Intel

Dr. Michèle Weiland, EPCC

■ **Exascale System Developments (Architecture & Concepts)**

June 20, 2017, 01:45 pm - 03:15 pm

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

Panorama 1, Forum

Teresa (Terri) M. Quinn, LLNL

Prof. Dr. Satoshi Matsuoka, Tokyo Institute of Technology

Simon McIntosh-Smith, University of Bristol

John Danskin, NVIDIA

Dr. Bronis R. de Supinski, LLNL

Al Gara, Intel

■ **Distinguished Speakers**

June 20, 2017, 01:45 pm - 03:15 pm

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

Panorama 2, Forum

Robots in Crowds - Robots & Clouds

01:45 pm - 02:15 pm

Prof. Dr. Sabina Jeschke, RWTH Aachen University

Big Data & Machine Learning Techniques for the ATLAS Experiment at the LHC

02:15 pm - 02:45 pm

Dr. Kerstin Tackmann, DESY

Challenges & Potentials of HPC & Data Analytics

02:45 pm - 03:15 pm

Dr. Eng Lim Goh, HPE

■ **Research Papers 04 - Applications II**

June 20, 2017, 01:45 pm - 03:15 pm

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

Panorama 3, Forum

gearshiff - The FFT Benchmark Suite for Heterogeneous Platforms

01:45 pm - 02:15 pm

Dr. Peter Steinbach, Max Planck Institute of Molecular Cell Biology & Genetics

Tile Low Rank Cholesky Factorization for Climate/Weather Modeling Applications on Manycore Architectures

02:15 pm - 02:45 pm

Prof. Dr. David Keyes, KAUST

Fast Matrix-Free Discontinuous Galerkin Kernels on Modern Computer Architectures

02:45 pm - 03:15 pm

Martin Kronbichler, TU München

■ **Use Cases for High Performance Data Analytics**

June 20, 2017, 01:45 pm - 03:15 pm

12:30 pm - 01:45 pm Lunch

03:15 pm - 03:45 pm Coffee Break

Analog 1+2 INDUSTRIAL DAY, Forum

Real-Time Prediction of Train Arrivals

01:45 pm - 02:15 pm

Dr. Ingo Elsen, T-Systems

The Analytics of Things - Creating New Value from Industrial IoT Data

02:15 pm - 02:45 pm

Christoph Hartmann, SAS

From Smart Virtual Prototypes to Product Performance Lifecycle

02:45 pm - 03:15 pm

Cristian Tanasescu, ESI Group

■ **BoF 10**

June 20, 2017, 01:45 pm - 02:45 pm

12:30 pm - 01:45 pm Lunch

Substanz 1+2, Forum

Hans-Christian Hoppe, Intel

Dr. Marie-Christine Sawley, Intel

■ **BoF 11**

June 20, 2017, 01:45 pm - 02:45 pm

12:30 pm - 01:45 pm Lunch

Kontrast, Hall 3.0

Francis Lam, Huawei

Prof. Dr. Dhabaleswar K. Panda, Ohio State University

Dr. Xiaoyi Lu, Ohio State University

Prof. Dr. Yutong Lu, NUDT

John Shalf, LBNL

Richard Graham, Mellanox

■ **BoF 12**

June 20, 2017, 02:45 pm - 03:45 pm

03:15 pm - 03:45 pm Coffee Break

Substanz 1+2, Forum

Prof. Dr. Jesús Labarta, BSC

Dr. Mike Dewar, NAG

Dr.-Ing. Bernd Mohr, JSC

■ **BoF 13**

June 20, 2017, 02:45 pm - 03:45 pm

03:15 pm - 03:45 pm Coffee Break

Kontrast, Hall 3.0

Larry Wikelius, Cavium

Neil Morgan, STFC Hartree Centre

Ross Miller, ORNL

Dr. James Ang, Sandia National Laboratories

■ **Project Posters Presentation**

June 20, 2017, 03:15 pm - 03:45 pm

03:15 pm - 03:45 pm Coffee Break

Booth #L-212, Hall 3.0

(PP01) Enabling Performance Engineering in Hesse & Rhineland-Palatinate

Alexandru Calotoiu, TU Darmstadt

(PP02) Performance Conscious HPC (PeCoH)

Dr. Kai Himstedt, University of Hamburg

(PP03) ProfiT-HPC - A Profiling Toolkit for HPC in Tiers 2 & 3

Mohammad Siahatar, Leibniz Universität Hannover

(PP04) ProPE - A Joint Effort to Establish a Unified Service Infrastructure for Performance Engineering in German HPC Centers

Dr. Jan Eitzinger, RRZE

(PP05) CloudLightning & HPC: Heterogenous Computing in the Cloud

Prof. Dr. Anne C. Elster, NTNU - Trondheim

(PP06) ESIWACE - Centre of Excellence in Simulation of Weather & Climate in Europe

Dr. Joachim Biercamp, DKRZ

(PP07) INTERTWinE: Programming Model INTERoperability ToWards Exascale

Dr. Valeria Bartsch, Fraunhofer ITWM

(PP08) Kronos: Benchmarking HPC Systems with Realistic Workloads

Antonio Bonanni, ECMWF

(PP09) M2DC - Modular Microserver Data Centre

René Griessl, Bielefeld University

(PP10) Middleware for Earth System Data

Dr. Julian Kunkel, DKRZ

(PP11) MIKELANGELO Project

Gregor Berginc, XLAB d.o.o.

(PP12) POP: A Transversal HPC Centre of Excellence in Performance Optimisation & Productivity

Dr. Edward Smyth, NAG Ltd

(PP13) StorAGE for Exascale Data Centric Computing (SAGE)

Dr. Sai Narasimhamurthy, Seagate

(PP14) The I/O Benchmarking Methodology of EoCoE Project

Antonio Colavincenzo, ENEA

(PP15) Advanced Computation & I/O Methods for Earth-System Simulations (AIMES)

Nabeeh Jumah, University of Hamburg

(PP16) Advanced Data Placement via Ad-hoc File Systems

Michael Kluge, TU Dresden

(PP17) ESSEX-II: Equipping Sparse Solvers for Exascale

Prof. Dr. Gerhard Wellein, RRZE & University of Erlangen-Nuremberg

(PP18) ExaFSA - Exascale Simulation of Fluid-Structure-Acoustics Interactions

Thorsten Reimann, Technische Universität Darmstadt

(PP19) FFMK: A Fast & Fault-Tolerant Microkernel-Based System for Exascale Computing

Dr.-Ing. Carsten Weinhold, TU Dresden

(PP20) SPPEXA - Software for Exascale Computing

Dr. Benjamin Uekermann, Technische Universität München

(PP21) Enhancing HPC for Scheduling & Deploying Game-Based Simulation Training on the Cloud

Dr. Brian Goldiez, University of Florida

(PP22) GeantV: Designing the Future of Particle Transport Simulation for HEP

Dr. Sofia Vallecorsa, CERN

(PP23) i_SSS - integrated Support System for Sustainability

Jannek Squar, University of Hamburg

(PP24) The Virtual Institute for I/O & the IO-500

Dr. Julian Kunkel, DKRZ

(PP25) Runtime Exploitation of Application Dynamism for Energy-efficient Exascale Computing

Dr. Lubomir Riha, ZIH / TU Dresden

■ Large Scale Engineering & Cloud Computing

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Panorama 1, Forum

How the Intersection of Cloud, Data Integration & Collaboration Enables a New Aviation Industry Experience

03:45 pm - 04:05 pm

Marc Dietrich, General Electric

High Performance Support of the Engineering Community at HLRS

04:05 pm - 04:25 pm

Dr.-Ing. Bastian Koller, HLRS

Porting & Scaling Engineering Applications in the Cloud

04:25 pm - 04:45 pm

Prof. Dr. Wolfgang Gentsch, UberCloud Community & Marketplace

■ **High Performance Computing in Life Sciences**

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Panorama 2, Forum

The Best of Both Worlds? Combining HPC & Big Data Methods for Bioinformatics Applications

03:45 pm - 04:05 pm

Prof. Dr. Andreas Hildebrandt, University of Mainz

Supercomputing Challenges in Evolutionary Biology

04:05 pm - 04:25 pm

Prof. Dr. Alexandros Stamatakis, HITS & KIT

Rapid, Accurate & Reliable Binding Affinity Calculations for Drug Discovery

04:25 pm - 04:45 pm

Prof. Peter V. Coveney, University College London

■ **Research Papers 05 - Data & I/O**

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Panorama 3, Forum

Extreme Event Analysis in Next Generation Simulation Architectures

03:45 pm - 04:15 pm

Stephen Hamilton, Johns Hopkins University

Alleviating I/O Interference through Workload-Aware Striping & Load-Balancing on Parallel File Systems

04:15 pm - 04:45 pm

Dr. Yuichi Tsujita, RIKEN AICS

■ **Industrial HPC User Round-Table**

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Analog 1+2 INDUSTRIAL DAY, Forum

Dr.-Ing. Andreas Wierse, Sicos BW

Dr. Martin Kaiser, MAN Diesel & Turbo SE

Gerd Büttner, Airbus Operation

Jan Wender, Atos

Björn Willenberg, GNS Systems

Dr. Felix Wolfheimer, Dassault Systems

Dr. Wim Slagter, ANSYS

■ **BoF 14**

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Substanz 1+2, Forum

Prof. Dr. Wu Feng, Virginia Tech

Dr. Erich Strohmaier, LBNL

Torsten Wilde, LRZ

■ **BoF 15**

June 20, 2017, 03:45 pm - 04:45 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Kontrast, Hall 3.0

Hans-Christian Hoppe, Intel

Dr. Marie-Christine Sawley, Intel

■ **Project Posters**

June 20, 2017, 03:45 pm - 06:00 pm

03:15 pm - 03:45 pm Coffee Break

04:45 pm - 05:15 pm Coffee Break

Booth #L-212, Hall 3.0

■ **Hans Meuer Award Ceremony**

June 20, 2017, 05:00 pm - 05:15 pm

04:45 pm - 05:15 pm Coffee Break

Panorama 2, Forum

■ **Tuesday Keynote**

June 20, 2017, 05:15 pm - 06:00 pm

04:45 pm - 05:15 pm Coffee Break

Panorama 2, Forum

Forecasting the Future Role of HPC in Weather & Climate Prediction

Dr. Peter Bauer, ECMWF
