

Scientific Applications towards Exascale

Report of Contributions

Contribution ID: **0**

Type: **not specified**

EoCoE project

Wednesday, October 4, 2017 9:20 AM (10 minutes)

Presenter: AUDIT, Edouard (MdlS)

Contribution ID: 1

Type: **not specified**

PRACE PCP machine @CINES

Wednesday, October 4, 2017 9:30 AM (20 minutes)

Primary author: ROUCHON, Olivier (CINES)

Presenter: ROUCHON, Olivier (CINES)

Contribution ID: 2

Type: **not specified**

KNL architecture

Wednesday, October 4, 2017 9:50 AM (1 hour)

Primary author: INTEL

Presenter: INTEL

Contribution ID: 3

Type: **not specified**

GENCI technological survey group

Wednesday, October 4, 2017 11:20 AM (20 minutes)

Primary author: HAUTREUX, Gabriel (GENCI)

Presenter: HAUTREUX, Gabriel (GENCI)

Contribution ID: 4

Type: **not specified**

CINECA Marconi

Wednesday, October 4, 2017 11:40 AM (20 minutes)

Presenter: CAVAZZONI, Carlo (CINECA)

Contribution ID: 5

Type: **not specified**

Optimizing Electronic-Structure Codes for KNL: Lights and Shadows

Wednesday, October 4, 2017 12:00 PM (30 minutes)

Presenter: BONFA', Pietro (CINECA)

Contribution ID: 6

Type: **not specified**

Towards Green Aviation with Python at Petascale

Wednesday, October 4, 2017 2:00 PM (1 hour)

Presenter: VINCENT, Peter (Imperial College London)

Contribution ID: 7

Type: **not specified**

qr_mumps: a runtime-based Sequential Task Flow parallel solver

Wednesday, October 4, 2017 3:00 PM (30 minutes)

Presenter: BUTTARI, Alfredo (IRIT)

Contribution ID: 8

Type: **not specified**

HYDRO

Wednesday, October 4, 2017 3:30 PM (30 minutes)

Presenter: LAVALLÉE, Pierre-François (IDRIS)

Contribution ID: 9

Type: **not specified**

Efficient Monte Carlo Neutron Transport Calculations with Advanced Architectures

Wednesday, October 4, 2017 4:30 PM (30 minutes)

Presenter: WANG, Yunsong (MdlS)

Contribution ID: **10**

Type: **not specified**

Metalwalls on Xeon, Xeon Phi and GPU

Wednesday, October 4, 2017 5:00 PM (30 minutes)

Presenter: HAEFELE, Matthieu (MdlS)

Contribution ID: 11

Type: **not specified**

Porting of Alya, a high performance computational mechanics code, to accelerators: KNL and GPU

Wednesday, October 4, 2017 5:30 PM (30 minutes)

Presenter: HOUZEAUX, Guillaume (BSC)

Contribution ID: 14

Type: **not specified**

DEEP-EST Project

Thursday, October 5, 2017 9:00 AM (30 minutes)

Presenter: EICKER, Norbert (JSC)

Contribution ID: 15

Type: **not specified**

Fusion energy and the case for exa-scale computing

Thursday, October 5, 2017 9:30 AM (30 minutes)

Presenter: LISGO, Steve (ITER)

Contribution ID: 16

Type: **not specified**

Scaling and optimizing Gysela code on a Intel KNL cluster

Thursday, October 5, 2017 10:00 AM (30 minutes)

Presenter: LATU, Guillaume (CEA)

Contribution ID: 17

Type: **not specified**

PIC codes on the road to exascale: adaptation to MIC architectures

Thursday, October 5, 2017 11:00 AM (30 minutes)

Presenter: LOBET, Mathieu (MdlS)

Contribution ID: **18**

Type: **not specified**

POP performance auditing of applications on new architectures

Thursday, October 5, 2017 11:30 AM (30 minutes)

Presenter: WYLIE, Brian (JSC)

Contribution ID: 19

Type: **not specified**

TRAINING - Lectures on PRACE PCP and KNL usage

Thursday, October 5, 2017 1:30 PM (1 hour)

Contribution ID: **20**

Type: **not specified**

TRAINING - KNL Hands-on 1

Thursday, October 5, 2017 2:30 PM (4 hours)

Contribution ID: 21

Type: **not specified**

TRAINING - KNL Hands-on 2

Friday, October 6, 2017 9:00 AM (3 hours)