

Le rendez-vous international  
The international meeting

# Forum Teratec 2016

**HPC**  
**BIGDATA**  
**SIMULATION**

Les clés du futur  
Unlocking the future

28 & 29 juin / June 2016  
Ecole Polytechnique  
Palaiseau - France  
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The logo for Forum Teratec features a stylized 'C' shape on the left, composed of a rainbow gradient from green at the top to red at the bottom. To the right of this shape, the words 'Forum' and 'Teratec' are stacked vertically in a large, bold, black sans-serif font.

# Forum Teratec

**11th edition**

**1 300 professionals participating**

**90 international speakers testify**

**70 companies and organizations exhibit**

09h30 **Opening of the 11th TERATEC Forum**

*Gérard ROUCAIROL, Chairman, TERATEC*

09h35 **Thierry MANDON, Secretary of State for Higher Education and Research**

09h55 **The new horizons of high performance computing**

*Gérard ROUCAIROL, Chairman, TERATEC*

10h15 **Tire innovation for sustainable mobility**

*Jean-Marie MUS, Physics and modeling of Performances Head of department, MICHELIN*

10h45 **Solver software infrastructure for exascale applications**

*David KEYES, Director, King Abdullah University of Science and Technology*

11h15 **The European Cloud Initiative and High Performance Computing (HPC)**

*Gail KENT, Acting Deputy Director General, DG CONNECT, EUROPEAN COMMISSION*

11h45 **Presentation of the TERATEC Forum 2016 sponsors**

*Platinum : BULL - HP - INTEL – DDN / Gold : CEA - MELLANOX - PANASAS*

12h30 Lunch & Visit of the exhibition & Networking

- 14h15 **The Convergence of Big Compute and Big Data in Cloud-Based HPC**  
*David PELLERIN, Business Development Principal for HPC, AMAZON WEB SERVICES*
- 14h45 **Climate science, Agenda 2030 Sustainable Development and the Paris Agreement?**  
*Valérie MASSON-DELMOTTE, directrice de recherches CEA/LSCE*
- 15h15 **Presentation of the TERATEC Forum 2016 sponsors**  
*Gold : SCALITY - SEAGATE - SGI*  
*Silver : DELL - FUJITSU - GENCI - NICE SOFTWARE - NVIDIA – OPENTEXT*
- 15h45 Coffee break - Exhibition - Networking
- 16h30 **Seismic Processing at CGG**  
*Jean-Yves BLANC, Chief IT Architect, CGG*
- 17h00 **HPC physics simulation at the heart of industry**  
*Jacques DELACOUR, Founder and CEO, Group OPTIS*
- 17h30 **SiMSEO, national program for the use of simulation in enterprises**  
*Hervé MOUREN, Managing Director, TERATEC*
- 18h00 **The 2016 Digital Simulation Awards**  
revealed by L'Usine Digitale, TERATEC and its partners ATOS, CEA, DDN, HPE, INRIA and SCALITY

**19h00 TERATEC' Party at the Lake of the Ecole Polytechnique**  
**for a festive and convivial evening organized in partnership with INTEL**

Six awards will be given in recognition of outstanding accomplishments in digital simulation, HPC and big data analytics

**TROPHÉES**  
DE LA SIMULATION  
NUMÉRIQUE  
**2016**

*Organised by*

**L'USINE DIGITALE**



## ● **Startup Award**

DCBRAIN  
REALIZ3D  
WAKE PREDICTION TECHNOLOGIES

## ● **Collaboration Award**

ONERA et ANDHEO  
SANOFI  
STELLA AEROSPACE

## ● **SME Award**

CLEMENT MARCEL  
NEXIO TECHNOLOGIES  
NUMTECH

## ● **Innovation Award**

DIOTA  
RENOVATION PLAISIR ENERGIE  
SURETE GLOBALE.ORG (ScO)

## ● **Jury's Prize**

## ● **Simulation Personality of the Year**

*In partnership with*



### **A2 – 9h00 / 12h30 - NEW APPROACHES TO BIG DATA IN AGRICULTURE**

*Chaired by Christian SAGUEZ, CYBELETECH*

*With the participation of Christian PICHOT, INRA - Steve PEQUET, ATOS - Abdel CHAIBI, INTEL - Denis WOUTERS, CYBELETECH - Eric BRAJEUL, CTIFL - Luc PASQUIER, AVIVA*

### **A5 – 14h00 / 14h00 - VISUALIZATION AND MULTIMEDIA**

*Chaired by Marie-Christine SAWLEY, INTEL and Françoise COLAITIS, CAP DIGITAL*

*With the participation of Yann CANIOU, NOESIS Solutions N.V. - Johannes GÜNTHER, INTEL - Luz CALVO, BARCELONA SUPERCOMPUTING CENTER - Jean-Baptiste SPIESER, TeamTO*

### **A6 – 14h00 / 17h30 - HIGH PERFORMANCE INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING**

*Chaired by Gilles ZERAH, CEA*

*With the participation of Christophe SIGLI, CONSTELLIUM - Francois WILLAIME, CEA - Ionel NISTOR, EDF - Elisabeth MASSONI, ECOLE DES MINES DE PARIS - François COURTEILLE, NVIDIA*

### **A8 – 14h00 / 17h30 - HPC TECHNOLOGIES AND APPLICATIONS IN THE HEALTHCARE SECTOR**

*Chaired by Claude CAMOZZI et Francois SIGAUX, CEA*

*With the participation of Suzanne HOLT BALLARD, OHIO UNIVERSITY - Emmanuel BACRY, CNRS - James COOMER, DDN - Peter CLAPHAM, SANGER - Ivo Glynne GUT, CENTRO NACIONAL DE ANALISIS GENOMICO*

### **A1 – 9h00 / 12h30 - VIRTUALIZATION**

*Chaired by Guillaume COLIN DE VERDIERE, CEA*

*With the participation of Ferdinand JAMITZKY, LEIBNIZ SUPERCOMPUTING CENTRE - Michaël KRAJECKI, Centre de Calcul de Champagne-Ardenne ROMEO - Francois DIAKHATE, CEA - Pascale ROSSÉ-LAURENT, ATOS - Alban SCHMUTZ, OVH - Philippe BRICARD, NICE Software*

### **A3 – 9h00 / 12h30 - TOOLS AND ALGORITHMS FOR BIG DATA APPLICATIONS**

*Chaired by Marie-Christine SAWLEY, INTEL*

*With the participation of Martin WALTERS, ORACLE - Marc WOLFF, MATHWORKS - Alex FENDER, NVIDIA - Panos LABROPOULOS, BRIGHT COMPUTING, Inc. - Vincent PEL and Rob VESSE, CRAY COMPUTER*

### **A4 – 14h00 / 17h30 - SPECIALISED COMPUTING ARCHITECTURES**

*Chaired by Gérard ROUCAIROL, TERATEC, Jean-Philippe NOMINE et Marc DURANTON, CEA*

*With the participation of Steve FURBER, UNIVERSITY OF MANCHESTER - Daniel ESTEVE, UNIVERSITE PARIS-SACLAY - Laurent LARGER, UNIVERSITE FRANCHE-COMTE - Ismael GHALIMI, STOIC - Hervé FANET, CEA LETI*

### **A7 – 14h00 / 17h30 - HPC TECHNOLOGIES & INDUSTRIAL INTERNET OF THINGS (IIOT) INFRASTRUCTURES**

*Chaired by Jacques DUYSSENS, ANSYS Inc.*

*With the participation of Bernard DION, ANSYS - Alain ZARLI, CSTB - Vincent LUBOZ, TEXISENSE - Marion CARRIER, CYBELETECH - Jean-Michel FREY, SOGETI HIGH TECH - Bradley KING, SCALITY*

- ACTIVEEON
- ADVANCITY
- ALINEOS
- AS+ GROUPE EOLEN
- ALLINEA SOFTWARE
- ALTAIR ENGINEERING
- ANSYS FRance
- ASTECH
- BRIGHT COMPUTING
- BULL / ATOS
- CADLM
- CAP DIGITAL
- CARRI SYSTEMS
- CEA
- CLUSTERVISION
- COMSOL France
- CRAY
- DDN STORAGE
- DELL
- EMG2 / BITTWARE
- ENGINSOFT ESTECO
- ESI GROUP
- ETP4HPC
- EXASCALE COMPUTING RESEARCH LAB
- FUJITSU SYSTEMS Europe
- GENCI
- HEWLETT PACKARD
- IFP ENERGIES NOUVELLES
- INRIA
- INTEL CORP.
- LENOVO
- MANGO
- MATHWORKS
- MELLANOX
- MICRO SIGMA
- NAFEMS
- NICE SOFTWARE
- NUMECA INTERNATIONAL
- NUMSCALE
- NVIDIA
- OPENTEXT
- PANASAS
- PARATOOLS
- PRO DESIGN ELECTRONIC
- QUANTUM
- ROGUE WAVE SOFTWARE
- SCALITY
- SEAGATE
- SGI
- SOGETI HIGH TECH
- SUPERMICRO
- SYSTEMATIC PARIS REGION
- TERATEC
- TOTALINUX
- TRANSTEC
- VEGEPOLYS
- VISIATIV

- ▶ European Research Cafe: European research projects : COLOC - EXDCI - M2DC/ FIPS - MONT-BLANC 3 - POP
- ▶ Collaborative Project Area: 18 collaborative R&D projects labeled by the competitiveness clusters
- ▶ SiMSEO Area : Disseminating the use of simulation within SMEs on a national scale



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**Welcome !**

