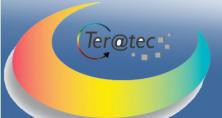


Hervé Mouren Managing Director of Teratec



Where we are

A larger scope confirmed

 From Classical Supercomputing to Systems Design, Big Data, Multimedia Creation, Life science applications....

New activities

- Launch of HPC Cloud initiatives
- Preparation of dedicated
 Services platforms for
 Engineering, Multimedia,
 Health, Agriculture, etc.

R&D

- Creation of the SystemX IRT
- Launch of the HPC
 European Technology
 Platform, ETP4HPC

Training

- HPC & Simulation Masters
 Degrees for students and engineers
- Continuous training programs and ad-hoc seminars



Campus Teratec

Operational - 10 000 m²

Technology Companies

Bull - CS SI - ESI - Silkan

Incubator and Business Center

- The Essonne Chamber of Commerce and Industry accommodates SME's and innovative companies
- Alliance service plus Atem Distène Eagocom Energy Innovation, Scilab Enterprises - Numtech - Xedix
- Adapted solutions, custom tailored support and high quality service in a technology-rich environment

Industrial Labs



- Extreme Computing (Bull et CEA)
- **Exascale** Computing Research (Intel, CEA, GENCI and UVSQ)
- System×
- Four dedicated HPC labs in Research and Technology Institute SystemX



Where we go

Simulation is essential for industrial competitiveness and will be the main key for re-industrialization

- Support dissemination across all industries and services
 - Facilitate access to HPC and simulation
 - Participation in Cloud initiatives
- Creation of Services platforms
 - Combine sectorial expertise and simulation expertise
 - Help the companies perform their design and simulation work
 - Provide computing ressources, software and technical expertises
- Help creation and development of technological SME'S
 - Hardware, Software and Services
 - In cooperation with Competitiveness clusters and Technical Centers



Where we go

Teratec Campus

- Covering the whole value chain, from components and systems to software and services
- Promotion and training activities on the Campus

Increase collaborative research

- In France: Investissements d'avenir, FUI, ANR
- In Europe : Horizon 2020, Structural funds, ITEA2
- Active promotion of the strategic importance of HPC and Simulation (public authorities, industry, press, etc.)

Teaching and training

- Strengthening of partnerships with universities, major engineering schools and industrial firms
- Development of new education and training programs



European Reference in Modeling & Simulation High Performance Computing

With permanent industrial objectives







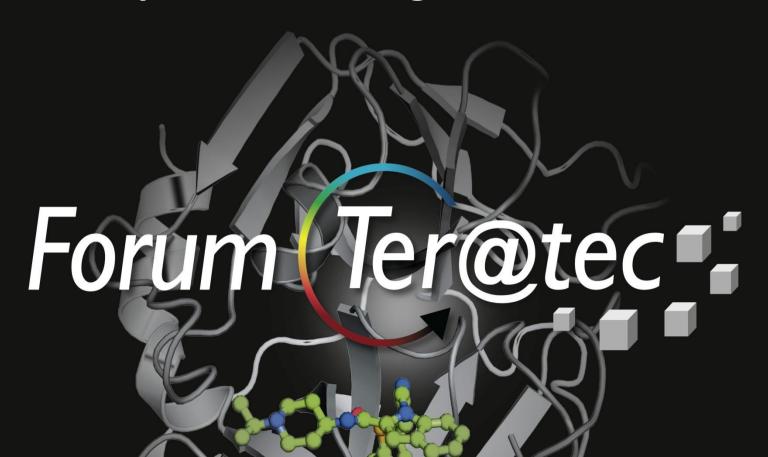
Innovation

Competitiveness

Job creations

8th edition

1 150 professionals participating 90 international speakers testify 65 companies and organizations exhibit



Plenary sessions



09h00	
	Gérard ROUCAIROL, Chairman, and Hervé MOUREN, Managing Director , TERATEC
09h15	David ROS, Vice-président du Conseil Général de l'Essonne
09h30	Game-changing computational engineering technology Charbel FARHAT, Depart. of Aeronautics & Astronautics, Army HPC Research Center, Stanford University
10h00	Exascale and Big Data at NERSC Sudip DOSANJH, Division Director, NERSC (National Energy Research Scientific Computing Center)
10h30	Presentations of the Forum Sponsors Platinum Sponsors: BULL – HP – INTEL - Gold Sponsors: CEA – OXALYA - PANASAS
11h00	Coffee Break & Visit of the exhibition & Networking
11h45	Evolution and challenges of engineering simulation Stefano ODORIZZI, CEO, ENGINSOFT
12h15	Paving the road ahead for software development in HPC Dr David LECOMBER, COO, ALLINEA SOFTWARE
12h45	Presentations of the Forum Sponsors Silver Sponsors: ALTRAN – CS – FUJITSU - DELL – DDN – EMC
13h00	Lunch & Visit of the exhibition & Networking





18h00	Cocktail & Visit of the exhibition & Networking
17h30	Louis GALLOIS, Commissaire général à l'investissement
17h10	La simulation au service de la compétitivité des entreprises Gérard ROUCAIROL, Président de TERATEC
16h50	HPC Challenges Marie-Pierre de BAILLIENCOURT, DGA de BULL
16h00	Coffee Break & Visit of the exhibition & Networking
15h40	Presentations of the Forum Sponsors Silver Sponsors: GENCI - NETAPP - NVIDIA - OPENSIDES - SGI. Partner: SYSTEMATIC
15h20	Computational challenges in Life Sciences Research Infrastructures Alvis BRAZMA, Senior Team Leader, Functional Genomics, EMBL/EBI (European Bioinformatics Institute)
15h00	Numerical simulation and optimization contributions for Air Liquide activities Régis REAU, directeur Scientifique d'AIR LIQUIDE
14h30	Jean-François MINSTER, directeur Scientifique de TOTAL



3 Workshops Technology Oriented



A1 - 09h00-12h30 - Embedded and Mechatronics Complex Systems: Trends and Challenges

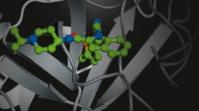
Chaired by Jacques DUYSENS (SILKAN), Gérard POIRIER (DASSAULT AVIATION) and Christian SAGUEZ (TERATEC) with the participation of Clément FORTIN (CRIAQ), Bruno MONSUEZ (ENSTA ParisTech), Laurent JULIARD (KALRAY), Philippe RAVIER (SILKAN) and Thierry CHEVALIER (AIRBUS)

A2 - 09h00-12h30 - Big Data and HPC

Chaired by Ange CARUSO (EDF), Georges HEBRAIL (EDF) and Guillaume COLIN DE VERDIERE (CEA) with the participation of Fernando VELEZ (SAP), Bob JONES (CERN), Marie-Luce PICARD (EDF R&D), Julien LAUGEL (MFG LABS), Parviz PEIRAVI (INTEL Corporation) and Philippe GIBERT (ORANGE Labs R&D)

A4 - 14h00-17h45 - Energy Efficiency of HPC systems

Chaired by Marie-Christine SAWLEY (INTEL Exascale Labs) with the participation of John SHALF (NERSC - Lawrence Berkeley Labs), Vincent KELLER (EPFL - Center for Advanced Modeling Science), Rosa BADIA (BARCELONA SUPERCOMPUTING CENTRE), Benoit PRADELLE (UNIVERSITE DE VERSAILLES SAINT-QUENTIN-EN-YVELINES), Daniele TAFANI (LEIBNIZ SUPERCOMPUTING CENTRE) and Sébastien CABANIOLS (HP)



3 Workshops Usage Oriented



A2 - 09h00 /12h30 - Materials Simulation

Chaired by Gilles ZERAH (CEA) with the participation of Laurent SOULARD (CEA), Massimo NORO (UNILEVER), Dominic TILDESLEY (CECAM) and Benoit SCHNELL (MICHELIN)

A5 - 14h00/17h30 - HPC in Biology and Health

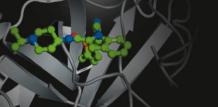
Chaired by François BALLET (MEDICEN) and Christian SAGUEZ (TERATEC) with the participation of François IRIS (BIO-MODELING SYSTEMS), Philippe GUILLET (SANOFI), Denis LE BIHAN (CEA) and Luc SOLER (IRCAD)

A6 - 14h00/17h45 - Modeling and simulation to support sustainable cities

Chaired by Vincent COUSIN (ADVANCITY) and Etienne DE POMMERY (ESI Group) with the participation of Hervé CHARRUE and Souheil SOUBRA (CSTB), Jean-Marc CREPEL (RENAULT), Franck BOUTTE (Agence Franck Boutté Consultants), Fabienne TROLARD (INRA) Trino BELTRAN (BOUYGUES BATIMENT International), Fabien BROCHETON (NUMTECH) and Philippe BISCH (SYNTEC Ingénierie)

09h00/17h30 - ScilabTEC'13, the fifth edition of the Scilab Users' Day

with the participation of Thierry MAROT (DGA), Jean-Louis NICKS (CNES), Mickaël BAUDIN (EDF), Sophie RAPENNE (EDF), Stéphane JIMENEZ (ARCELORMITTAL), Guillaume DUTILLEUX (CETE), Silvia POLES (OPENEERING), Jean-Pierre BOVEE (SANOFI), Emmanuel SOHM (SDI), Stephane CHAUVEAU (CAPS ENTREPRISE), Claude GOMEZ (SCILAB ENTERPRISES) and Gérard POIRIER (DASSAULT AVIATION)

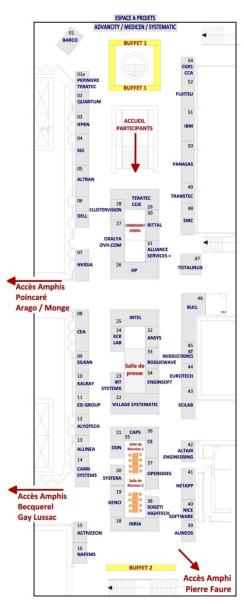


Exhibition



- ACTIVEON
- ALINEOS
- ALLIANCE SERVICES PLUS
- ALLINEA SOFTWARE
- ALTAIR ENGINEERING
- ALTRAN
- ALYOTECH
- ANSYS FRance
- BARCO
- BULL
- CAPS ENTREPRISE
- CARRI SYSTEMS
- CCI DE L'ESSONNE
- CEA
- CLUSTERVISION
- COMMUNICATION & SYSTEMES
- CONSEIL GENERAL DE L'ESSONNE
- CC DE L'ARPAJONNAIS
- DATADIRECT NETWORKS
- DELL
- EMC
- ENGIN SOFT
- ESI GROUP
- EUROTECH
- EXASCALE COMPUTING RESEARCH LAB
- FUJITSU
- GENCI
- HEWLETT PACKARD

- IBM
- IFPEN
- INRIA
- INTEL
- KALRAY
- NAFEMS
- NETAPP
- NICE SOFTWARE
- NVIDIA
- OPENSIDES
- OXALYA
- PANASAS
- PEPINIERE TERATEC
- QUANTUM
- RITTAL
- ROGUE WAVE
- SCILAB
- SGI
- SILKAN
- SOGETI HIGH TECH
- ST MICROELECTRONIC
- SYSFERA
- SYSTEMATIC
- SYSTEMX IRT
- TERATEC
- TOTALINUX
- TRANSTEC



Thank you for your attention & Welcome!

