



THE INTERNATIONAL MEETING FOR HPC, SIMULATION, BIG DATA

Tuesday 11 & Wednesday 12 June, 2019

Ecole Polytechnique, Palaiseau (91)

- 14th Edition -

Forum Teratec 2019 confirmed major trends for HPC/HPDA: Emergence of Europe, Rise of Data Analysis, and Use of these technologies by the greatest number of people

The 14th Forum TERATEC held on June 11 and 12 at the École Polytechnique clearly confirmed three main trends in High Performance Computing and High Performance Data Analysis: Europe's determination to become a major global player in the field, the rising Use of supercomputers for Simulation and Data Processing, and Societal concerns generating a huge need for computing, all of which influencing technology.

Bruyères-le-Châtel, June 12th, 2019. After years of absence from the field, the European Commission has decided to place Europe among one of the three major global players in HPC / HPDA (High Performance Computing / High Performance Data Analysis) by launching the "EuroHPC Joint Undertaking (JU)" at the end of 2018. The objective is to get two supercomputers listed in TOP 5 open to researchers and industrialists in Europe by 2023, with at least one being of European technology. The second objective is indeed to develop a complete European supply chain for HPC, through a comprehensive Research and Innovation Program.

In her message to Participants at the Forum, European Commissioner to the Digital Economy and Society, Mrs Mariya Gabriel said: **"... the present context is worrying. Europe is no longer the privileged playing ground for these major technological advances... for industrial development as for scientific research: personalized medicine, climatology or space conquest. Great dreams require super computers... We need to get the infrastructure to realize our dreams, relying on upstream value chains and recovering our lost leadership in the underlying technologies, and to ensure that they are operated downstream for us to use these machines that we need. This is the secret for autonomy in the 21st century, facing the USA, China or Japan...».**

The imperative need to master HPC/HPDA technologies and to widely deploy their uses in all sectors was the "Leitmotiv" from the speakers during the two days. Thus, **Emmanuel Chiva**, Director of the Defence Innovation Agency, stressed the importance of Simulation, Artificial Intelligence and High Performance Computing to accelerate innovation. Same is true for **Philippe Varin**, President of France Industrie, for whom one of the major challenges of French industry is to achieve its digital transition across all industrial sectors. **Jean-Yves Le Gall**, President of CNES, also showed how these HPC technologies at the heart of the "New Space" are in fact one key asset for European space. With respect to their experience, this trend was also highlighted by **Matthias TRAUB**, Head Automotive IoT and E-Architectre of BMW AG, **Marc Hamilton**, VP Solutions Architecture and Engineering of NVIDIA, **Mustapha EL-Bouchouafi**, CEO of Hexagon Manufacturing Intelligence France and **Thierry Pellegrino**, VP & General Manager of HPC, Dell EMC.

The outburst in the use of these HPC/HPDA technologies by the general public is the other very important turning point that was confirmed during the two **roundtables** dedicated to Health, and Autonomous systems as witnessed by major players from the ecosystem: Atos, Bechtle, CEA, Cray Computer, DDN Storage, Dell EMC, HPE, Intel, Mellanox Technologies reported on key projects that will be at the heart of our daily lives tomorrow.

This trend was further reinforced during the **technical and application workshops**, which reported on research and technological innovations in quantum computing, Digital Twin, predictive maintenance, data handling and management, and also provided an opportunity to present user experiences in such varied application sectors as personalized medicine, environment and natural resources, additive manufacturing and composite materials or, autonomous vehicles.

As every year in partnership with **L'Usine Digitale**, the Forum Teratec awarded the **Simulation and Digital Technologies Trophies**, whose 2019 winners are Teamshout, Mokili, Ingelligence Technologies / Laboratoire Jean Kuntzmann and ESI Group, also receiving the **Trophy from the general public**.

The **Forum Teratec** is also **an exhibition where more than 60 major players** from the world of HPC, Big Data, digital simulation and machine learning (AI) **showed to the 1,300 visitors** the latest advances, initiatives and innovations in high power computing and high performance digital simulation, in order to remain at the forefront of competitiveness.

**Join us on June 16 & 17, 2020
for the next Forum Teratec**

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