



**THE INTERNATIONAL
MEETING FOR HPC,
SIMULATION, BIG DATA**
27 & 28 June 2017 - 12th edition
Ecole Polytechnique, Palaiseau, France

2017 TERATEC Forum: 12 years old, a very good year!

The doors have just closed on the 12th TERATEC Forum, held at the Ecole Polytechnique in Palaiseau (France). This was the 12th year the Forum has been organized, and it has been a very good year indeed!

Why? Because the plenary sessions accomplished what they set out to do, to give a voice to users and suppliers of the technology, as well as perfectly illustrating the incredible diversity of applications and the advances being achieved.

Norbert Luetke-Entrup (Siemens) came to show how digital science is revolutionizing the core trades of one of the world leaders in the electrics industry. **Alain de Rouvray (ESI-Group)** explained how industrial manufacturers are moving on from immersive virtual engineering to hybrid twins to optimize product performance through the full lifecycle. **Toshiyuki Shimizu (Fujitsu)** presented the development strategy implemented by RIKEN and Fujitsu for computers offering even higher performance, low energy consumption, and combining compatibility, accessibility and user-friendliness. **Jay D Humphrey (Yale University), Frank Garnier (Bayer) and Francois Andry (Philips Healthcare)** demonstrated the technological advances made in HPC and Big Data for applications in the Life Sciences and Healthcare. **Adeline Loison and Alassane Cisse (HLi Group)** demonstrated how their customers can use Machine Learning to manage their strategy and take operational decisions. **Khalil Rouhana (DG Connect - European Commission)** confirmed the desire of the European Commission to make Europe one of the world's three centers of excellence in HPC by 2020, and announced EC funding for an infrastructure facility with two exascale computers to be built by 2023.



The range of subjects covered by **the eight technical and applicative workshops** held on Wednesday reflected the new sectors in which HPC, Simulation and Big Data are finding applications. Run by recognized experts (from **Arcelormittal, CEA, EDF, Noriap, Safran, Bull / Atos, Cray, Cosling, Cybeletech, HPE, IBM, Intel, Nvidia, Tellmeplus, CERFACS, Inria, IRISA, King's College London, ONERA, UVSQ**, etc) these workshops were based on presentations of real industrial applications and public-sector research, for example: in addition to presenting emerging technologies (Blockchain, Deep Learning), they covered such diverse applications as improving **production and quality monitoring in agriculture, the impact on more personalized medicine** by 2025, and the use of **digital science to create new materials**.

The champions of Digital Simulation were recognized for the third year running at the Awards ceremony: **STRAINS** won the "Start-up" Award. The "SME" Award went to **COSMOTECH**. **QUANTMETRY** won the "Innovation" Award and the Digital Simulation Grand Prize. Last, the "Collaboration" Award was won by **TRANSVALOR**.



Meanwhile, in the main hall, seventy exhibitors, thirteen of which were here for the first time, showcased and premièred their latest developments for visitors to the Forum, including all the latest hardware and software technology designed for data processing, management, storage and sharing: supercomputers, software suites, artificial intelligence platforms, processors, digital simulation solutions, services for HPC and Big Data, Deep Learning tools, etc. There was also a great deal of talk about services, encompassing initial project studies, specifications for the hardware, software and human resources required to resolve digital simulation issues, and on-demand services.

There were also a number of themed areas, such as the **DataPoC Area**, the **European Research Café** and the **Collaborative Projects Area**, organized to inform and promote research. In the case of DataPoC, this was an opportunity to present the ten SMEs selected to take on the ten digital challenges launched by **Teratec** in partnership with its sponsors: **Airbus Safran Launchers, Alstom, Axereal, GE, Gemalto, Noriap, and Intel**. The ten challenges focused on the fields of Big Data, smart objects, prototyping and 3D printing, multitude and user-centered approaches, covering applications in the following key sectors: Cities and urban systems, Agri-food industry, Manufacturing Industry and Security.

The 2017 Forum has been a huge success, with the leading innovators in R&D and industry coming to explain to over 1,300 attendees how Big Data, Simulation and HPC can enable them to embrace the great digital transition.

For its part, **Teratec** sees the Forum as a way to support industry in successfully navigating this transition: the professionals attending the two-day Forum this year were treated to a panoply of lectures, workshops, themed areas and more.

**Note the dates of the next TERATEC FORUM:
19 & 20 June 2018**

**To find out more on: [Forum Teratec](#)
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