

PRACE receives HPCwire Readers' and Editors' Choice – Best Use of HPC in Energy award



The distinguished HPCwire Readers' and Editors' Choice Award, in the category “Best Use of HPC in Energy” was presented to PRACE, [Barcelona Supercomputing Center \(BSC\)](#), and GENCI at the 2018 International Conference for High Performance Computing, Networking, Storage and Analysis (SC18), in Dallas, Texas. Tom Tabor, CEO of Tabor Communications, publisher of HPCwire, personally handed over the award to representatives from PRACE - Serge Bogaerts (PRACE Managing Director); BSC – [Sergi Girona](#) (BSC Operations Director) and GENCI - Stéphane Requena (Directeur Technique & Innovation - GENCI), at the PRACE booth (#2033).



from left to right: S.Girona, T.Tabor, E.Audit, S. Requena, S.Bogaerts

A French research team led by Dr. Benjamin Rotenberg, [CNRS](#) – including la [Maison de la Simulation](#) (CNRS/CEA/INRIA/Univ. Paris-Saclay), [PHENIX](#) (Sorbonne Université/CNRS) and CIRIMAT (University of Toulouse III – Paul Sabatier /CNRS), used molecular simulations to improve processes for “Blue Energy”, a potential significant source of global electricity. Blue energy is the free energy lost when salty sea water and less salty river water meet and mix in estuaries.

A [PRACE](#) allocation of 22.1 million core hours on the MareNostrum supercomputer, hosted at BSC (Spain), and a [GENCI](#) allocation of 7.8 million core hours on the Curie supercomputer (hosted at TGCC, CEA, France) were used to run this pioneering project.

<http://www.prace-ri.eu/simulation-on-blue-energy/>

“PRACE is pleased to receive this prestigious award from the readers of HPCwire. It is a priority for PRACE to support excellent pioneering research which has a potentially significant impact to our society and strengthens European competitiveness.” says Serge Bogaerts, PRACE Managing Director.

“We are very happy to receive this award as it is rewarding an initiative initiated 5 years ago in the framework of a collaboration between la Maison de la Simulation and the PHENIX laboratory (CNRS and Sorbonne University), which aims to bring together physicists-chemists and HPC engineers. We can now simulate much more complex systems because our code is now adapted not only to GENCI French supercomputers, but also to European supercomputers of PRACE such as BSC.” says Benjamin Rotenberg, CNRS senior scientist.

“BSC is glad that the Spanish commitment to PRACE allows European scientists to achieve outstanding scientific results enabled by large allocations on the Spanish supercomputer MareNostrum”, says [Sergi Girona](#), BSC Operations Director.

“GENCI together with PRACE work to enable the best scientific projects from French and European researchers access the best supercomputers at European level available through the PRACE infrastructure. We also would like to congratulate the entire French research team led by Benjamin



Rotenberg, CNRS senior scientist, who has made a superb breakthrough in the field of osmotic energy, thanks to a GENCI national allocation and then a PRACE allocation on BSC MareNostrum supercomputer” says by Philippe Lavocat, CEO GENCI.

The coveted annual HPCwire Readers’ and Editors’ Choice Awards are determined through a nomination and voting process with the global HPCwire community, as well as selections from the HPCwire editors. The awards are an annual feature of the publication and constitute prestigious recognition from the HPC community. These awards are revealed each year to kick off the annual supercomputing conference, which showcases high performance computing, networking, storage, and data analysis.

About HPCwire

HPCwire is the #1 news and information resource covering the fastest computers in the world and the people who run them. With a legacy dating back to 1986, HPCwire has enjoyed a legacy of world-class editorial and journalism, making it the news source of choice selected by science, technology and business professionals interested in high performance and data-intensive computing. Visit HPCwire at www.hpcwire.com

About PRACE

The Partnership for Advanced Computing in Europe (PRACE) is an international non-profit association with its seat in Brussels. The PRACE Research Infrastructure provides a persistent world-class high performance computing service for scientists and researchers from academia and industry in Europe. The computer systems and their operations accessible through PRACE are provided by 5 PRACE members (BSC representing Spain, CINECA representing Italy, ETH Zurich/CSCS representing Switzerland, GCS representing Germany and GENCI representing France). The Implementation Phase of PRACE receives funding from the EU’s Horizon 2020 Research and Innovation Programme (2014-2020) under grant agreement 730913.

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