

PRACE receives HPCwire Editors' Choice - Top HPC Enabled Scientific Achievement award



The distinguished HPCwire Readers' and Editors' Choice Award, in the category "Top HPC Enabled Scientific Achievement" was presented to GENCI, PRACE, and Compute Canada at the 2017 International Conference for High Performance Computing, Networking, Storage and Analysis (SC17), in Denver, Colorado. Tom Tabor, CEO of Tabor Communications, publisher of HPCwire personally handed over the award to representatives from PRACE - Serge Bogaerts (PRACE Managing Director); GENCI - Philippe Lavocat (CEO, GENCI) and Stéphane Requena (Directeur Technique & Innovation - GENCI), and Christophe Calvin (CEA); at the PRACE booth.



From l to r: S.Bogaerts, T.Tabor, C.Calvin, S.Requena, and P.Lavocat

The HPC resources from GENCI, PRACE, and Compute Canada facilitated, the simulation of the Sun's magnetic cycle by scientists from CEA, CNRS, the University Paris-Diderot, Harvard-Smithsonian Center for Astrophysics, and the University of Montréal. The discovery of a scaling law for determining the magnetic cycle of a star is a pioneering research and the results will help to comprehend violent space weather phenomena. In addition the simulations of the magnetism of solar-type stars contribute to the preparations for space missions including ESA's Cosmic Vision Solar Orbiter and PLATO, whose launches are planned for 2018 and 2024. The results we published in the July 14, 2017 issue of Science.

<http://www.prace-ri.eu/le-secret-des-cycles-magnetiques-des-etoiles/>

PRACE is delighted to have been able to contribute to this ground-breaking research by offering access to the European HPC Infrastructure, and to have enabled this outstanding achievement.

Sinéad Ryan, Vice-Chair of PRACE Scientific Steering Committee (SSC) stated: *"The PRACE SSC warmly welcomes this award in recognition of scientific excellence enabled by high-performance computing. This pioneering work, culminating in the discovery of a scaling law for the stellar magnetic period cycle will improve our understanding of space weather and its impact on terrestrial and satellite communications systems. In addition, it opens a new frontier in solar physics research for which access to Europe's most advanced computing resources will play an important role."*

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. More information on these awards can be found at the HPCwire website (<http://www.HPCwire.com>) or on Twitter through the following hashtag: #HPCwireAwards.

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 and funded by 5 PRACE members (BSC representing Spain, CINECA representing Italy, CSCS representing Switzerland, GCS representing Germany and GENCI representing France). The Implementation Phase of PRACE receives funding from the EU's Seventh Framework Programme (FP7/2007-2013) under grant agreement RI-312763 and from the EU's Horizon 2020 Research and Innovation Programme (2014-2020) under grant agreements 653838 and 730913. For more information, see www.prace-ri.eu

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