MEDIA ADVISORY

Researchers to Unveil Impacts of HPC on Scientific Discovery & Innovation

HALIFAX NS (May 26, 2014) - From June 25 to 27, 2014, Canadian and international researchers across six disciplines will be talking about their discoveries using High Performance Computing. Co-hosted by Compute Canada and its Atlantic Canadian regional partner, ACEnet, the annual High Performance Computing Symposium is Canada’s largest national forum for discussing advanced computing applications in research. (http://2014.hpcs.ca/)

Now in its 28th year, HPCS is a multidisciplinary conference where computational researchers from all disciplines, industry, government, HPC practitioners and vendors exchange new tools, techniques and discoveries.

This year’s symposium is being held at the Westin Nova Scotian in Halifax, Nova Scotia. Six conference streams are planned under the umbrella theme of HPC Serving Society. These are: Computational Chemistry; Computational Materials Chemistry; Big Data & Analytics; Bioinformatics; Ocean Modelling & Climate Change; and Oil & Gas Reservoir Modelling.

Plenary speakers include Gilbert Brunet from the UK Meteorological Office (Ocean Modelling & Climate Change), Frank Dehne and Ashkan Golshani from Carleton University (Bioinformatics), Axel Becke from Dalhousie University (Computational Chemistry), K. Sampath from Hibernia Management & Development (Oil & Gas Reservoir Modelling), and Nikolas Provatas from McGill University (Computational Materials Chemistry).

These plenaries will be followed by parallel sessions that include Invited Talks by key speakers, Contributed Talks that have been selected through a submission process, several sessions around data visualization rooms, and a Technology & Infrastructure section.

HPCS 2014 will also include a panel discussion by the Digital Infrastructure Leadership Council, a session on High Performance Computing usage in industry, a Poster Session and a TECH
Lounge, where industry and career-seekers can mingle. Two days of technical tutorials for HPC practitioners will precede the main conference.

The conference is made possible through the support of a number of sponsors, including Data Direct Networks, IBM, HP, Xyratex, Canarie, and Bell Aliant.

Details of the conference, as well as speaker bios, topics and other information can be found on the HPCS 2014 website at http://2014.hpcs.ca. Follow HPCS 2014 on Twitter at @HPCS2014.

**WHAT:** Canada's largest advanced computing research conference, HPCS2014  
**WHEN:** June 25th to 27th, 2014  
**WHERE:** Westin Nova Scotian, Halifax, Nova Scotia  
**WHO:** Canadian researchers across six disciplines, industry representatives, government agencies  
**WHY:** Accelerating discovery through HPC.

**About High Performance Computing:**  
High Performance Computing (HPC) involves a cluster of computers working together to solve scientific, engineering, business or data analysis problems that are too large or complex for any single computer. Used by researchers, governments and industry, HPC can remove years from timelines for research or product innovation and makes new types of analysis and problem solving possible. HPC is a rapidly-growing combination of hardware, software and skills that is advancing Canada's expertise and capabilities in science and technology, with resulting benefits for both economic development and society at large. The availability and quality of HPC services is critical to attracting top research talent in the region and Canada.

**About Compute Canada:**  
[Compute Canada](http://www.computecanada.ca) is the umbrella organization responsible for High Performance Computing in Canada. Within Compute Canada, there are four regional partners: [ACEnet](http://www.acenet.ca); [Calcul Quebec](http://www.calcul-quebec.ca); [Compute Ontario](http://www.computeontario.ca); and [WestGrid](http://www.westgrid.ca). Working in collaboration, Compute Canada and the regional HPC consortia provide for the overall architecture and planning, software integration, operations
and management, and coordination of user support for the national HPC platform. As the national HPC organization, Compute Canada coordinates and promotes the use of HPC in Canadian research and works to ensure that Canadian researchers have the computational facilities and expert services necessary to advance scientific knowledge and innovation.

About the Atlantic Computational Excellence Network (ACEnet):
Established in 2006, the Atlantic Computational Excellence Network (ACEnet) is a consortium of Atlantic Canadian Universities that provides researchers with both regionally-based and through Compute Canada, access to national High Performance Computing (HPC) resources. ACEnet is a partner consortium with Compute Canada.

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