

WestGrid and Compute Canada Seminar Series

SPRING 2013

This seminar series explores how WestGrid and Compute Canada - Calcul Canada advanced computing resources are being used to support research in the sciences, engineering, medicine and humanities. Talks are videoconferenced between participating WestGrid partner institutions and range from 20 - 30 minutes. WestGrid support staff are present at each location to meet with researchers and answer questions following the talks. For more information, visit www.westgrid.ca or email info@westgrid.ca.

Refreshments provided - first come, first served.

Attendees can enter a draw for priority access to WestGrid systems for one month!

**16
JAN**

How to Use WestGrid

This session will provide attendees with a step-by-step tutorial on using WestGrid machines, including demonstrations of how to log in, submit jobs, move data, troubleshoot, etc. This will be an introductory-level session, covering the basics of getting started and providing tips for efficient and effective use of the machines.

**06
FEB**

Visualization Tutorial

This session will discuss the visualization software that is available for use on WestGrid computational resources and how to use this software remotely from your desktop. In particular, the presentation will cover the use of the Graphics Processing Units (GPUs) on parallel.westgrid.ca for remote visualization of large data sets.

**06
MAR**

A Closer Look at the HPC Behind Multiscale Theory and Modeling

Andriy Kovalenko is an Adjunct Professor in the Department of Mechanical Engineering at the University of Alberta and a Group Leader, Senior Research Officer at the National Institute for Nanotechnology. His research focuses on the development of theoretical methods able to predict the behaviour of nanosystems. In this talk, Kovalenko will discuss his latest research projects and how WestGrid and Compute Canada - Calcul Canada resources support those investigations.

**20
MAR**

Using MATLAB on WestGrid Systems

MATLAB is a general-purpose high-level programming package that is available for use on WestGrid. It is typically used for numerical work such as linear algebra, but, has many add-on toolboxes to extend its capabilities into discipline-specific areas. This talk will cover the various ways in which MATLAB can be run on WestGrid systems. In particular, the use of the MATLAB compiler to create standalone applications will be illustrated.

SEMINAR TIMES

**Due to daylight savings, for Mar. 20, the seminar will start at 12:30. This applies to Saskatchewan locations only.

BRITISH COLUMBIA

11:30

ALBERTA

12:30

SASKATCHEWAN**

13:30

MANITOBA

13:30

For updated seminar and location information, please visit: www.westgrid.ca

WestGrid is one of four regional HPC consortia that operate and support the Compute Canada - Calcul Canada national platform of supercomputing resources. The national platform brings together computer and data facilities, computational expertise, and hundreds of academic researchers to tackle some of Canada's biggest research challenges.

