



## **Workshop on Using the NAG Numerical Library, and Data Visualization with IRIS Explorer**

**Lecturer: Dr. Jeremy Walton**  
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**February 19-20, 2008**  
**University of Ottawa**  
CUBE Building, 160 Louis Pasteur Dr., Room 104

**February 21-22, 2008**  
**HPCVL, Queen's University, Kingston**  
993 Princess St., Suite 115

**Registration 8:30 am, Lectures & Lab 9 am – 5 pm**

HPCVL in collaboration with Numerical Algorithms Group (NAG) is hosting two 2-day workshops on Using the NAG Numerical Library, and Data Visualization with IRIS Explorer.

The first day and the morning of the second day of the workshop will be devoted to a training session on the NAG Numerical Library, which is a comprehensive collection of mathematical and statistical algorithms for programmers and application developers. These routines are accessible from a variety of environments, including standard languages such as Fortran, C and C++, as well as packages like MATLAB, Maple and Excel, and provide a straightforward way to incorporate powerful, reliable and accurate algorithms into developers' applications. The training session will include an introduction to the functionality of the library, along with several examples of its use. In particular, it will highlight those routines which have been specially developed and tuned for use on Symmetric Multi-Processor (SMP) systems.

The afternoon of the second day of the workshop will be a training session on IRIS Explorer, NAG's visualization toolkit. IRIS Explorer users construct analysis applications by connecting together software modules via an intuitive visual programming interface. More than three hundred modules are supplied with the toolkit, many of which make internal use of the NAG Numerical Library; in addition, users can add their own modules using Fortran, C or C++ code. The training session will show how to create visualization and analysis applications in IRIS Explorer, together with an introduction to the development of custom modules for use within the toolkit.

HPCVL provides its registered users with access to the NAG Numerical Library and IRIS Explorer on a variety of platforms, ranging from Solaris and Linux to Windows XP and MacOS. Completion of this workshop will count towards certificates in the framework of the HPCVL certificate program. This workshop is open to all and there is no registration fee.

For **registration**, agenda, and further details, please visit our website at  
<http://www.hpcvl.org/training/>