



The Faculty of IT and the Monash e-Research Centre
are proud to present the following seminar - part of the
High Definition interactive video links of
MURPA Seminar Series 2010

Software Development in Petascale Computing By Dr Brett Bode

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Visit: <http://www.ncsa.illinois.edu/BlueWaters/>

The primary goal of the 'Blue Waters' supercomputer software development team is to increase the productivity of researchers, system administrators and application developers via an integrated toolset to use, analyse, monitor and control the behaviour of the new Blue Waters supercomputer, due to come online in 2011. The Blue Waters team (and their partners) have considered the following areas:

- Workflow systems to simplify the running of jobs.
- Methods of moving and storing data.
- Computational libraries which support scientific applications.
- Tools for managing and monitoring system performance.
- Debugging tools.
- Environments for creating new scientific applications.
- Simulators which can model the performance of scientific applications.
- Application frameworks suited to new programming methods.

Date: Friday, 22 October
Time: 9am-10am (coffee from 8.45am)
Location: Seminar Room 135, Building 26,
Clayton campus

Registration by 21 Oct: Rob.Gray@infotech.monash.edu.au

MURPA Seminar Series 2010

Monash Undergraduate Research Projects Abroad (MURPA) supports a unique summer mode placement in a leading research group overseas. It not only provides a research experience at the undergraduate level, but does this in an international context. Students are placed for a period of eight weeks allowing them to integrate into the research groups as team members.

MURPA also involves an advanced seminar scheme, in which students can attend seminars given by world leading experts before they leave. The seminar scheme is novel, because it uses cutting edge High Definition interactive video links with the University of California and recently the University of Illinois - and often simultaneous links to Japan - making it feasible to attract some of the world's best researchers 'virtually' to Monash. These seminars also allow students to 'meet' potential UCSD mentors and obtain information about possible projects.