

Seminar Friday, 18 March 2011:

Monash Undergraduate Research Projects Abroad (MURPA)

Student Presentations live – Including High Definition Video links with the United States

A group of Monash students have recently been engaged in eScience undergraduate research internships in the United States at NCSA, Illinois, as well as UCSD, San Diego, from early January 2011. eScience involves a combination of computational thinking/expertise – coupled with a chosen area of the sciences / social science.

The annual MURPA program exposes final year undergraduate students to an international research experience within a leading research laboratory.

This Friday the group of returned MURPA students will present their outcomes by High Definition Video back to their US hosts (NCSA and UCSD) and live to a Monash audience at Clayton campus.

Date: Friday, 18 March Time: 9-11am (NCSA, Illinois and UCSD, San Diego - *Coffee available from 9am) Location: Seminar Room 135, Building 26, Clayton Campus Enquiries: rob.gray@monash.edu (Faculty of IT) For more details visit:

<http://www.monash.edu.au/eresearch/events/index.html>

Monash Student Presentations:

To NCSA from 9.30-10am - Edgar Kautzner, Jian Zhang To UCSD from 10-11am - James Wetter , Geoff Pascoe, Lin Wei, Wai Keung Yiu Man Lung

Overview of Projects:

NCSA 1: **Edgar Kautzner** (Bachelor of Information Technology Systems (BITS) : Telematics in Music Collaboration, Rehearsal and Performance - Enhanced audio/ video conferencing models across US universities

NCSA 2: **Jian Zhang** (Bachelor of Software Engineering(BSE): Integration of Guard Parallel Software Debugger into Blue Waters HPC Environment.

UCSD 1: **James Wetter** (Engineering (Mechatronics)/IT): Real Time Visualisation in Astrophysics.

UCSD 2: **Geoff Pascoe** (Engineering(Mechatronics)/IT): Cross Network Platform for Environmental Sensor Data Capture and Analysis.

UCSD 3: **Lin Wei** Bachelor of Information Technology Systems (BITS): Integrating Web Services, Nimrod and Kepler in Biomedical Workflows.

UCSD 4: **Wai Keung Yiu Man Lung** (Bachelor of Computer Science (BCS): Binding Imaging Software with Kepler/Nimrod for Neuro-Imaging.

This is the first year the National Centre for Supercomputing Applications (NCSA) has taken Monash students and it has enabled some new themes to be introduced which relate to the increased processing power at NCSA, with the new Blue Waters Supercomputer.

If you would like to see what exciting results they can achieve, learn about their experiences and more about the 'MURPA' program then please join us.

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