



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

Using Virtual Machines to Accommodate Computational Chemistry in Courses and Classrooms By Dr Edee Wiziecki & R Jay Mashl

Wiziecki: Cybereducation Lead National Center for Supercomputing Applications (NCSA) at University of Illinois.

Mashl: Research Scientist and Lead ICLCS Instructor.

The Institute for Chemistry Literacy through Computational Science is a five year funded project to bring research-level computational chemistry tools to pre-college and college classrooms. Over the past four years we have collected data from standardized tests that show we are positively impacting pre-college student achievement by enhancing the content knowledge and pedagogy of their teachers (ICLCS Fellows). And, we have growing numbers of undergraduate students at Illinois utilizing our resources in their chemistry courses. - One of the computational tools used by our program's Fellows and their high-school students is WebMO, a web-based interface to quantum chemistry software, such as Gaussian and GAMESS that empowers users to construct and visualize molecules and to obtain various properties. The primary advantage of the web interface is that inputs are generated and output files are parsed automatically, helping to hide the complexities of handling data, thereby enabling the users to focus on the chemistry content and enhancing the learning experience. .

(Visit: <http://iclcs.illinois.edu/>)

Date: Friday, 3 September
Time: 9am-10am (coffee from 8.45am)
Location: Seminar Room 135, Building 26,
Clayton campus
Registration by 2 Sept: 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 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.

<https://messagelab.monash.edu.au/MURPA/MURPA2010>