



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 2009

# Can a Greener Internet Help Us Moderate Climate Change? Presented by Professor Larry Smarr

(Principal investigator, NSF OptiPuter LambdaGrid)

( Biography: <https://messagelab.monash.edu.au/MURPA/LarrySmarr>)

" This year marks a turning point in the debate on global climate change. The focus of the discussion is rapidly moving from a scientific analysis of how human activity effects climate change to a political process on how best to regulate greenhouse gas emissions. The Climate Group's Smart 2020 study reveals that the global Information and Communication Technology (ICT) industry produces greenhouse gases equivalent to that produced by the aviation industry (~2-3 percent). Furthermore, the ICT sector's emissions will nearly triple, in a business-as-usual scenario, from 2002 to 2020. On the other hand, the Climate Group estimates that transformative applications of ICT to electricity grids, logistic chains, intelligent transportation and building infrastructure, and other social systems can reduce global greenhouse gas emissions by about 15 percent— five times ICT's own footprint! I will discuss initiatives on university campuses in the US and Australia to innovate new solutions to these challenges."

**Date:** 14 May  
**Time:** 10am-11am  
**Location:** Seminar Room 135, Building 26,  
Clayton campus

Registration required by 12 noon, 13 May: [rob.gray@infotech.monash.edu.au](mailto:rob.gray@infotech.monash.edu.au)

## MURPA Seminar Series 2009

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 that 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 a cutting edge High Definition interactive video link to the University of California, 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 get some information about potential projects.

<https://messagelab.monash.edu.au/MURPA/MURPA2009>

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