

**Harnessing the Data Deluge,
Dr Francine Berman, Director, San Diego Supercomputing Center**

The Faculty of IT and the Monash e-Research Centre are proud to present the following important public seminar. This is part of the exciting MURPA Seminar Series 2009, and currently a VeRSI e-Coffee event:
(<https://messagelab.monash.edu.au/MURPA/MURPA2009>)

Date: 19th March, 2009

Time: 10.00am-11.00am (coffee from 9.45am)

Location: Room 135, Bldg 26, Clayton campus

The Information Age has brought with it a deluge of digital data. Current estimates are that in 2006, 161 exabytes (10^{18} bytes) of digital data were created from cell phones, computers, iPods, DVDs, sensors, satellites, scientific instruments, and other sources. This digital information drives virtually every area of research, education, commerce, entertainment, and is the source of forward progress and innovation in every country across the globe. While today's digital data has the potential to transform our work and life, the challenge of managing it, retaining it, accessing it over the long term, and using it constitute some of the most challenging problems of our time.

Solving these problems requires strategies that make sense from a technical, policy, regulatory, economic, security, and community perspective. In this talk, we focus on the opportunities presented by today's and tomorrow's deluge of data along with the challenges of creating useful information from this data accessible for the foreseeable future.

Biography

Dr Francine Berman is an international leader in 'Cyberinfrastructure', recognised in 2004 as one of the top women in technology by BusinessWeek, as one of the top technologists by IEEE Spectrum and most recently as a leader in science and technology by Newsweek. Dr Berman is an advocate for sustainable data preservation.

She is an ACM Fellow, Professor, and first holder of the High Performance Computing Endowed Chair at University of California San Diego (UCSD). Since 2001, Dr Berman has served as Director of the San Diego Supercomputer Center (SDSC) where she leads a staff of more than 250 interdisciplinary scientists, engineers, and technologists. Dr Berman has also served on many national U.S. science advisory boards.

For a full biography please visit: <http://www.sdsc.edu/about/Director.html>

**Background on MURPA (Monash Undergraduate Research Projects Abroad) (<https://messagelab.monash.edu.au/MURPA>):

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.

MURPA is supported by Monash Faculty of Information Technology, Monash e-Research Centre (<http://www.monash.edu.au/eresearch/>), Monash Deputy Vice-Chancellor (International) and Monash Abroad.

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