

Seminar: Friday 13 September 2013: Monash Undergraduate Research Projects Abroad (MURPA) and Queensland Undergraduate Research Projects Abroad (QURPA).

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

On Friday 13 September Dr Nancy Wilkins-Diehr will present her seminar "Science in the Digital Age: The Science Gateways Institute and NSF Software Investments" live to audiences in Melbourne and Brisbane.

Melbourne Date: Friday 13 September Time: 9.00 - 10.00am Location - Monash University: Seminar Room G12A, Building 26, Clayton Campus Enquiries: Caitlin Slattery (Faculty of IT)

Brisbane Date: Friday 13 September Time: 9.00 - 10.00am Location - University of Queensland: Seminar Room 505A, Building 47 (Axon), St Lucia Campus Enquiries: Sharon Cook (Research Computing Centre)

San Diego Date: Thursday 12 September Time: 4.00pm - 5.00pm Location: 5004 Meeting Room Enquiries: Teri Simas

Abstract: Science in the Digital Age: The Science Gateways Institute and NSF Software Investments

Nancy Wilkins-Diehr, co-director XSEDE Extended Collaborative Support Services (ECSS) program and principal investigator on the Science Gateways Institute conceptualisation award.

The ability to gain knowledge and understanding from the vast quantities of available data is a significant challenge to today's researchers. Data comes in many forms - computed data from petascale systems, streaming data from sensors, data from instruments such as telescopes and next generation sequencing devices and more. Reproducibility and data provenance are related important issues. Many scientists turn to cyberinfrastructure for help, including databases, Web and collaboration technologies, high performance computing, visualization, data mining, and data management techniques. Well-built software, and especially science gateways or Web portals can tie together these disparate components of cyberinfrastructure in functional and reliable ways. This talk will describe NSF's Software Infrastructure for Sustained Innovation program with a particular focus on the Science Gateways Institute (<http://www.sciencegateways.org>) conceptualization award.