

MURPA seminar Friday 8th October 2010 at 9am from NCSA Illinois

Venue: Seminar Room 135, Building 26 Monash Clayton

Subject: **Applications on the Blue Waters Sustained Petascale System**

Speaker: **Dr. Robert A. Fiedler**, Blue Waters Technical Program Manager for Science and Engineering Applications at the National Center for Supercomputing Applications (NCSA)

Abstract

After an overview of the Blue Waters architecture and configuration, the petascale problems to be addressed by the science and engineering applications teams selected for early access to Blue Waters will be described. The key computational challenges and various approaches to overcoming them will also be discussed.

Bio:

Robert Fiedler, CSAR, University of Illinois, USA. Bob Fiedler received his Ph.D. in physics from the University of Illinois at Urbana-Champaign in 1990. He has been the technical program manager at the UIUC Center for Simulation of Advanced Rockets (CSAR) since 1998. In 1997, he was a senior technical consultant with Hewlett-Packard and before that he was a senior research programmer at NCSA where he developed a parallel astrophysics simulation package. At CSAR, he is a technical lead for integrating multiple engineering applications to perform large-scale, multidisciplinary, coupled, multiphysics simulations of complex systems. His interests include parallel application development and optimization, visualization, I/O, fluid dynamics, mesh adaptivity, and fluid structure interaction problems.

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