



## IBM Lecture Series

# The Open Science Grid –

Bridging Campus, National and Community Grids



## Ruth Pordes

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Batavia, Illinois

The Open Science Grid (OSG) is an alliance of university, national laboratory, scientific collaboration and software developer groups working together to share the use of distributed systems of existing and new processing farms, tape and disk storage resources, and grid-wide services across the U.S. and abroad. The OSG infrastructure currently provides access to more than 80 processing farms and interoperates with several independent campus or regional grids, enabling the transport of data and jobs across their interfaces. The OSG provides a reference software stack based on the Virtual Data Toolkit, an integration of Condor, Globus, and other common grid middleware. OSG-wide services include a Grid Operations Center, a troubleshooting “swat” team, and accounting and monitoring infrastructures.

The talk will explain the OSG implementation architecture and principles, give an introduction to the current status and activities, and explain the plans for the coming year. The OSG is supported by the National Science Foundation and the U.S. Department of Energy’s Office of Science.

*Ruth Pordes is the executive director of the Open Science Grid — a consortium that was formed in 2004 to enable diverse communities of scientists to access a common grid infrastructure and shared resources. Pordes is an associate head of the Fermilab Computing Division, with responsibility for Grids and Communication, and a member of the CMS Experiment with responsibility for grid interfaces and integration. She has worked on a number of collaborative or “joint” computing projects at Fermilab, as well as been a member of the KTeV high-energy physics experiment and an early contributor to the computing infrastructure for the Sloan Digital Sky Survey. She has an M.A. in Physics from Oxford University, England.*

**Friday, June 22, 2007**  
**136 DeBartolo Hall**  
**11:00 a.m.**