

## Calendar/Meetings

### JUNE

1-2, [Open Science Grid Applications Workshop](#), SLAC, Menlo Park, CA

8-10, [UltraLight Summer Workshop Tutorial](#), FIU University Park campus, Miami, Florida

8-10, [2005 Great Plains Network-MIDnet Annual Conference](#), Kansas City, Missouri

12-16, [11th Annual Meeting of the Organization for Human Brain Mapping](#), Toronto, Canada

20-23, [GCA'05 - The 2005 International Conference on Grid Computing and Applications](#), Las Vegas, Nevada

[Full Calendar](#)

## Image of the Week



**Initial assembly of the Compact Muon Solenoid detector. (Click on image for larger version.)**

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The [Compact Muon Solenoid](#) is one of four experiments located at the Large Hadron Collider at CERN in Geneva, Switzerland. Grid computing will be used by researchers all over the world to analyze the vast amount of particle

## Feature Story

### International Grid Project Now Running in Four Continents



Attendees at the Brazil in CMS and HEPGrid Workshop.

Open Science Grid, an international grid project being developed for use by scientific and computer science applications from a variety of disciplines, has now added South America to the list of continents participating in the OSG Integration Grid. As part of the Brazil in CMS and HEPGrid Workshop, held May 12-13 at Rio de Janeiro State University (UERJ), an OSG site was inaugurated at the HEPGrid Brazil computing center.

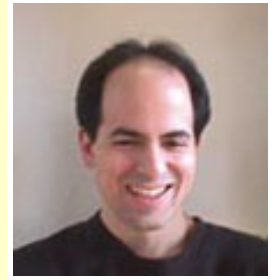
"The meeting had two important goals," said Alberto Santoro, Professor at UERJ and workshop organizer. "The first was to start the HEPGB OSG site and discuss global computing for the Compact Muon Solenoid experiment. The second was for the Brazilian high energy physics collaborators to meet with the spokesman and representatives from the CMS experiment to discuss potential Brazilian collaboration and contributions to the detector and computing."

The HEPGB project connects the seven Brazilian universities and research institutions participating in high energy physics research with each other and with international grid projects. The goal of HEPGB is to facilitate regional collaboration and the country's participation in worldwide research. HEPGB will be a

## Profile

### Alain Roy: Providing Virtually Foolproof Middleware Access

Alain Roy started working on the Virtual Data Toolkit in 2001, with the goal of making it as easy as possible for users to deploy, maintain and



Alain Roy

use grid middleware. The project to package, test and support the set of middleware in the VDT, which started with only Roy, now has three full-time employees and is being used by several grid projects, including the Open Science Grid, the LHC Computing Grid, and the LIGO data grid.

"The VDT was originally designed to provide everything necessary to make the Virtual Data System work," said Roy, an associate researcher at the University of Wisconsin-Madison and the VDT technical lead. "Now it provides a mechanism to install almost 35 middleware components."

The VDT was originally created to deliver grid technologies developed by the National Science Foundation-funded Grid Physics Network and International Virtual Data Grid Laboratory projects, which continue to be the primary sources of funding for the VDT. The Virtual Data System is software that constructs large grid workflows and tracks the provenance of data.

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physics data that will be collected with the CMS detector when the LHC starts running in 2007.

### Link of the Week


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 Office of Science/  
U.S. DOE

Tier 2 computing center in the CMS experiment grid computing structure, associated with the Tier 1 computing center at Fermilab in Illinois.

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### Grids in the News

#### Grid computing 'vital to Europe's future'

ZDNet UK, June 1, 2005

By Catherine Everett

The European Commission (EC) has announced that grid computing will be a cornerstone in attempts to improve the coordination of research and development activities across Europe and improve competition with the US and Japan.

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#### U.K. National Grid Service Expands

Joint Information Systems Committee  
Press Release, May 27, 2005

The UK National Grid Service (NGS) passed a significant milestone in May when Cardiff and Bristol universities joined as the first non-founder members of the service by making some of their computing facilities available on the "Grid".

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### Larry Smarr on Future of Grid, Cyberinfrastructure

In this Q&A, Larry Smarr, director of the



California Institute for Telecommunications and Information Technology (Calit2) and NCSA founding director, discusses, among other things, the effects LambdaGrids will have on Grid computing, the timeline for a legitimate cyberinfrastructure in the United States and what he calls the "Third Era" for campus infrastructure.

GRIDtoday: First, I'd like to ask how everything is going at Calit2.

LARRY SMARR: Our California Institute for Telecommunications and Information Technology (Calit2 -- see [www.calit2.net](http://www.calit2.net)) is a partnership between UC-San Diego and UC-Irvine. It is an experiment in "institutional innovation" to see if a persistent infrastructure to support and increase cross-disciplinary teams can be set up across the vertical stovepipes of departments, schools, and campuses within the UC system. Calit2 is nearing occupation of our two new buildings, which have been designed to enhance such collaboration. The Irvine building is already being occupied and UCSD's will be by September.

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*This article, by GRIDtoday editor Derrick Harris, originally appeared in the May 23, 2005 issue of GRIDtoday.*