

Calendar/Meetings

May

28-31, [ICCS 2006: International Conference on Computational Science](#), University of Reading, UK

June

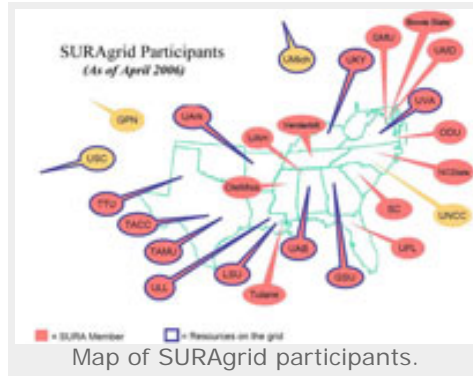
6-9, [European Grid Conference 2006](#), Brussels, Belgium

12-15, [TeraGrid '06: Advancing Scientific Discovery](#), Indianapolis, Indiana

[Full Calendar](#)

Feature Story

SURA Brings Grids to Southeastern United States



SURAGrid, the cyberinfrastructure initiative of the Southern Universities Research Association, has received authorization for \$1 million over the next three years from the SURA Board of Trustees to expand its resources and staff and to develop new grid communities across the Southeastern United States.

"We're continuing the growth of SURAGrid as a heterogeneous set of resources for SURA researchers," says Gary Crane, SURA's director of IT initiatives. SURAGrid was launched in 2004 to provide high performance computing resources in support of research, education and economic development within the American Southeast region. Several scientific applications are already under development within SURAGrid, and project leaders hope that educational applications won't be far behind.

One of the first applications is a grid-enabled version of ADCIRC, the Advanced Circulation Model, used on the SURAGrid to compute ocean water levels and depths. ADCIRC is used within SCOOP, the SURA Coastal Ocean Observing and Prediction program, to compute tidal and storm surge water levels and depths resulting from North Atlantic tropical storms and hurricanes.

[Full article](#)

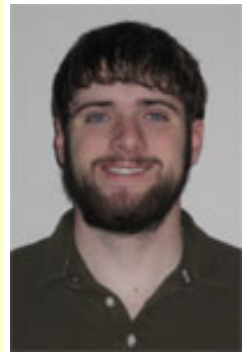
From the Editor

Science Grid This Week will take a Memorial Day holiday next Wednesday, and will return with a new issue June 7.

Profile

Mixing Grids and Graduate School

Over the past two years, Brian Bockelman has qualified as a Ph. D. candidate in both mathematics and computer science at the University of Nebraska-Lincoln, set up and maintained a working grid computing site for UNL physicists collaborating on a particle physics experiment, helped researchers at three other universities get up to speed on the grid, and - most recently - celebrated his twenty-first birthday.



Brian Bockelman

"I started out as a mathematics graduate student," says Bockelman, "but after a year and half wondered, 'since I was spending so much time with computers, why not go ahead and do both?'" One year ago, as the first degree candidate in a new joint mathematics and computer science program, Bockelman started working on the UNL grid site. The university had been chosen as a "Tier-2" computing site for the CMS particle physics experiment, which meant that a cluster needed to be set up on the Open Science Grid. Bockelman installed the middleware and software necessary for computation, storage and data transfer.

"At the beginning it was just me and four new servers," Bockelman recalls. "A lot of the grid stuff is still very fragile, so at first it took quite a bit of effort to keep everything running, but

Image of the Week



3D animation of Hurricane Katrina. (Click on image for larger version.)

Image Courtesy Atul Nayak, Scripps Institution of Oceanography Visualization Center, UCSD

This image shows a three-dimensional animation of the Katrina hurricane displayed on the 50-million-pixel 'iCluster' system at the Scripps Institution of Oceanography, University of California, San Diego. The 'iCluster' is a visualization system that offers a resolution of up to 50 million pixels for the exploration of earth science datasets. The system is used to monitor real-time streams of

data collected by seismic, coastal and environmental sensor networks.

[Read more...](#)

Grids in the News

TeraGrid Software Project Wins CLADE 2006 Best Paper

TeraGrid Press Release, May 22, 2006

A paper that describes a system for aggregating processors on demand from across the distributed resources of the National Science Foundation TeraGrid has won the best paper award for the 2006 CLADE (Challenges of Large Applications in Distributed Environments) workshop to be held June 19 in Paris, France.

[Read More...](#)

CERN Launches Second Phase of Openlab Industry Partnership

CERN Press Release, May 17, 2006


The second phase of CERN openlab, a partnership between CERN and leading IT companies, was officially launched at a ceremony at CERN.

[Read More...](#)

[PDF Version for Printing](#)

[XML](#) [RSS Headlines](#)



 Office of Science/
U.S. DOE

Announcement

Register Now for EGEE'06



Geneva, Switzerland

Registration is now open for EGEE'06, the first conference of the second phase of the Enabling Grids for E-Science project. At EGEE'06, to be held September 25-29 in Geneva, Switzerland, grid user communities, decision makers, resource providers and developers will discuss how to capitalize on past investments and plan a sustainable future for grid computing.

A large number of grid projects and applications will be featured during the five-day event. CERN, the European Organization for Nuclear Research, will host the conference, which will take place at the newly-renovated International Congress Centre of Geneva. Other Geneva-based international organizations will be present to discover how they can profit from cutting-edge grid technology. The EGEE project's commitment to technology transfer to industry will be highlighted through an industrial parallel session.

A demonstration session of live grid applications will be organized, with a prize for the best demonstration. The conference will also feature an exhibition area highlighting grid achievements, and keynote speakers from the international research community, industry and European and local governments.

Early bird registration is available until June 30. To register, or for more information, visit www.eu-egee.org/egee06.

there's been a marked improvement over the past year." In addition to improvements to the stability of grid middleware, the past year has also brought two additional full-time staff members to the UNL CMS site.

[Full article](#)

TeraGrid User Portal Goes Live

On Monday, May 15, the TeraGrid initiative launched the TeraGrid User Portal, a sophisticated resource for users across the country to get information about TeraGrid resources and to simplify account management. Current TeraGrid users will receive their portal logins in a phased rollout over a three month period that started on May 15.



"Our Science Gateways initiative aims to deliver the power and variety of TeraGrid resources through discipline-specific web portals and desktop applications," said TeraGrid Director Charlie Catlett from the University of Chicago. "The user portal is essentially a general purpose science gateway for the entire user community. It will incorporate tools from the science community and provide examples of what can be built into any TeraGrid science gateway."

The purpose of the TeraGrid User Portal is to serve as a launch pad for new users and a control panel for current users by integrating all TeraGrid resources, services and information into a single web interface serving a national community of computational researchers, according to Eric Roberts, lead developer for the User Portal and software developer at the Texas Advanced Computing Center (TACC).

[Full article](#)