

Calendar/Meetings

August 2005

1-2, [First DIALOGUE Workshop: Applications-Driven Issues in Data Grids](#), Columbus, Ohio

22-26, [ACM SIGCOMM 2005](#), Philadelphia, Pennsylvania

23-27, [20th APAN Meeting : Advanced Network Conference in Taipei](#), Taipei, Taiwan

30-31, [Bridging the Gap: End-to-End Networking for Landmark Applications](#), Ann Arbor, Michigan

[Full Calendar](#)

Image of the Week



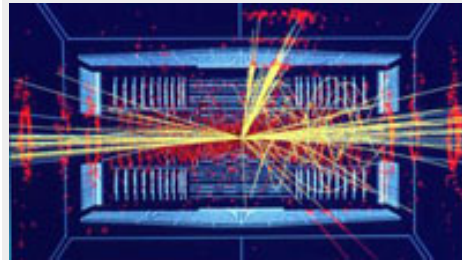
Tape robot. (Click on image for larger version.)

Image Courtesy Fermilab Visual Media Services

Tape robots such as the one shown

Feature Story

DISUN Connects Universities to the LHC Through Grid Computing



Simulated collision in the CMS detector.

Image Courtesy CMS Collaboration

Scientific research and grid computing at universities across the country took a big step forward recently with an award of \$10 million from the National Science Foundation to the Data Intensive Science University Network. DISUN will allow over 200 physicists at U.S. universities to study the fundamental properties of particles and forces by providing access to data from the Compact Muon Solenoid experiment at the Large Hadron Collider at CERN in Geneva, Switzerland.

DISUN is a collaboration of five U.S. universities that will develop, deploy and operate a distributed computing infrastructure that will allow university physicists to analyze data collected on another continent, and researchers in other sciences to strengthen participation in national and international research activities.

"Through DISUN, the physics community will be able to take full advantage of the unprecedented opportunities for discoveries at the LHC," said Harvey Newman from the California Institute of Technology, US CMS Collaboration Board Chair.

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The TeraGrid Adds Big Ben



Ribbon cutting in front of Big Ben.
Image Courtesy Pittsburgh Supercomputing Center

The newest, most advanced Cray Inc. system is up and running at the Pittsburgh Supercomputing Center where it will support unclassified research nationwide on the National Science Foundation's TeraGrid. Nicknamed Big Ben, the Cray Inc. XT3 serial #1—the first XT3 shipped from Cray—was officially introduced at a ribbon cutting on July 20.

Speaking at the event, NSF director Arden Bement stressed that NSF's goal with the TeraGrid is to assemble cyberinfrastructure along the lines of other infrastructures—such as water and the electrical power grid—that we now take for granted.

"Already, with the TeraGrid," he said, "we have achieved a magnificent melding of sophisticated systems into a larger, more transformative tool. With this system we are fulfilling an important national goal—providing one of the fastest computing capabilities to the U.S. research community."

[Read more...](#)

Grids in the News

here aid in the storage and retrieval of many types of data worldwide. At Fermilab, tape libraries house data from particle physics and astrophysics experiments, and tape robots retrieve stored data for experimenters to use in their analysis.

[Link of the Week](#)

An Atlas of Cyberspaces

This virtual atlas helps you visualize the digital landscape beyond your computer screen, through maps and graphic representations of the geographies of the Internet, the World Wide Web and other cyberspaces. The atlas contains hundreds of maps in more than a dozen categories, including [historical maps of the first networks](#), [artistic renderings of cyberspace](#) and [geographic cyberspace maps](#).

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Office of Science/
U.S. DOE

What Did the Students Think?



Students work through hands-on exercises in South Padre Island.
Image Courtesy Martha Casquette

Last week *Science Grid This Week* reported on the [2005 Summer Grid Workshop](#), held July 11–15 in South Padre Island, Texas. Several Workshop participants—graduate and undergraduate students from the U.S. and South America and one teaching assistant—shared their thoughts about the workshop for this week's issue.

Follow the link below to hear from five of the forty-four participants: Sreeranjani Ramprakash, Santiago Pena, Dylan Stark, Jamie Hegarty and Rogerio Iope.

[Read more...](#)

NSF Creates Office of Cyberinfrastructure

From GRIDtoday, July 26, 2005

In a statement to National Science Foundation employees, Director Arden Bement, Jr., announced that, effective immediately, the Division of Shared Cyberinfrastructure at NSF has been renamed the Office of Cyberinfrastructure (OCI) and the reporting line has been changed from the Directorate of Computer and Information Science and Engineering (CISE) to the Office of the Director.

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UF receives \$2.5 million grant to further worldwide research efforts

University of Florida Press Release, July 26, 2005

GAINESVILLE, Fla. — The University of Florida has been awarded \$2.5 million for its role in the Data Intensive Science University Network, a multi-university computer grid that will provide support for advanced research activities worldwide.

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TeraGrid Initiative Seeks to Address Needs of Computational Scientists

TeraGrid News Release, July 25, 2005

AUSTIN, TX—Key representatives of the TeraGrid initiative—the world's largest, most comprehensive cyberinfrastructure for open scientific research—will participate at the eighth official Congress of the United States Association for Computational Mechanics (USACM) to better understand how the TeraGrid's high-performance cyberinfrastructure can further advance the particular research needs of computational scientists.

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