

Calendar/Meetings

June

19-23, [HPDC15: The 15th IEEE International Symposium on High Performance Distributed Computing](#), Paris, France

19-23, [Workshop on Workflows in Support of Large-Scale Science](#), Paris, France

21-23, [2006 NEES Annual Meeting](#), Washington, D.C.

25-30, [SciDAC 2006](#), Denver, Colorado

26-30, [Grid Summer Workshop 2006](#), South Padre Island, Texas

26-30, [GRID'2006: The 2nd International Distributed Computing and Grid Technologies in Science and Education Conference](#), Dubna, Russia

27-29, [16th GridPP Collaboration Meeting](#), Queen Mary, University of London, UK

28-30, [Second International Conference on e-Social Science](#), Manchester, UK

[Full Calendar](#)

Image of the Week

Feature Story

Accelerating Cancer Research



Today's cancer researchers, whether they are combing through animal genomes or collecting medical histories from human patients, are in the midst of an information explosion. New techniques in biomedical research create huge amounts of data, greatly increasing the chance of scientific breakthroughs but making those advances difficult to achieve. The cancer Biomedical Informatics Grid™ project is developing a computing infrastructure to help scientists accelerate progress in cancer prevention and treatment by synthesizing, standardizing and analyzing all that data.

The caBIG™ pilot project, funded by the National Institutes of Health and coordinated by the National Cancer Institute, bridges people and institutions as well as technologies and tools.



Image Courtesy
caBIG™

"We've taken on all the major organization and social challenges of getting a fairly large community of geographically separated people and institutions to work together," says Chief Operating Officer Peter Covitz from the NCI Center for Bioinformatics.

[Full article](#)

Announcement

TeraGrid '06 Revs Up Cyberinfrastructure



NSF Director Arden Bement Jr. and OCI Director Dan Atkins pose at the SDSC Resource Provider stand.

"Infrastructure's not boxes and wires, it is people and institutions."

Dan Atkins' sentiment, expressed during his plenary talk at last week's TeraGrid '06 meeting in Indianapolis, described well the atmosphere at the national grid infrastructure's first public conference. More than 450 people from academia, government and industry attended TeraGrid '06 to share ideas, innovations and insight into using cyberinfrastructure to address the world's challenging computational problems.

Plenary talks from National Science Foundation Director Arden Bement Jr., NSF Office of Cyberinfrastructure Director Atkins and TeraGrid Director Charlie Catlett discussed the history and future of cyberinfrastructure in general and the TeraGrid in particular, and how new technologies are advancing scientific research.

"TeraGrid participants are taking a clear leadership role in involving computing power that will enable researchers to do their work more swiftly, collaboratively and efficiently than ever before," noted Bement in his keynote speech.

[Full article](#)



The Grid

takes particle physics everywhere

Grid poster from the Lepton Photon 2003 symposium. (Click on image for larger version.)

Image Courtesy Fermilab

One of a series of grid computing posters exhibited at the Lepton Photon particle physics symposium at Fermi National Accelerator Laboratory in 2003. The series showed how grid computing will allow particle physicists all over the world to access and analyze their data to study the fundamental properties of particles and forces.

Link of the Week

A Process-Oriented Approach to Engineering Cyberinfrastructure

In this report, the Engineering Advisory Committee Subcommittee on Cyberinfrastructure lays out a plan of action for understanding the engineering communities' requirements, resources and needs for cyberinfrastructure, and integrating cyberinfrastructure efforts within the NSF Engineering Directorate's research and education efforts.

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Office of Science/
U.S. DOE

Nominations Sought for 2006 Cray and Fernbach Awards



Seymour Cray and Sidney Fernbach

Nominations are solicited by July 31 for the 2006 IEEE Computer Society Seymour Cray and Sidney Fernbach Awards. The awards will be presented in November at the SC06 conference in Tampa, Florida.

The Seymour Cray Computer Engineering Award is given to individuals whose innovative contributions to high performance computing systems best exemplify the creative spirit demonstrated by Seymour Cray. The award, established in 1998, carries an honorarium of \$10,000. The Sidney Fernbach Memorial Award is given for outstanding contributions in the application of high performance computers using innovative approaches. The \$2,000 award was established in 1992 in memory of Fernbach, a pioneer in the development and application of high performance computers for the solution of large computational problems.

The nomination poster can be viewed [here](#). If you have any questions, please contact [Sangtae Kim](#), chair of the 2006 Fernbach Award Committee, or visit the [IEEE Computer Society Awards Web site](#).

Grids in the News

State should move quickly to high-speed grid

American News, June 21, 2006

By Bob Mercer

South Dakota needs to hook up to the grid - that is, the higher-speed information grid that is already serving a hefty share of the United States.

[Read More...](#)

PCs by Day, Supercomputers by Night

The Globe and Mail, June 19, 2006

By George Butters and Stephen Butters

St. Francis Xavier University is using open source software and grid technology to transform ordinary PCs into mega computing power -- at virtually no extra cost.

[Read More...](#)

Statewide research initiative signed at MSU

MSU Press Release, June 15, 2006

Morehead State University today became the newest partner in a statewide technology program linking thousands of K-12 public school computers into a computing grid to support scientific research projects at Kentucky's universities.

[Read More...](#)

'Garuda' set to take wing

The Times of India, June 15, 2006

By Pranjali Bhuyan

India's thrust into grid computing — a stage ahead of supercomputing — is set to enter the operational phase by July, enabling select institutions across the country to share and access the indigenous supercomputing system.

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