

Calendar/Meetings

May

15-18, [TERENA Networking Conference 2006](#), Catania, Italy

16-19, [CCGrid06: 6th IEEE International Symposium on Cluster Computing and the Grid](#), Singapore

16-19, [Grid Asia 2006](#), Singapore

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

[Full Calendar](#)

Image of the Week



Poster from the Supercomputing 2003 conference. (Click on image for larger version.)

Image Courtesy SLAC and Fermilab

This poster, titled "The Grid makes the world your computer," was one of a series of computing posters exhibited by Fermi National Accelerator Laboratory and the Stanford Linear Accelerator Laboratory at the Supercomputing 2003 conference in Phoenix, Arizona.

Link of the Week

Feature Story

Extending the Grid by 'EPIC' Proportions



EPIC meeting attendees gathered at RENCI headquarters.

Image Courtesy Josh Coyle, Renaissance Computing Institute

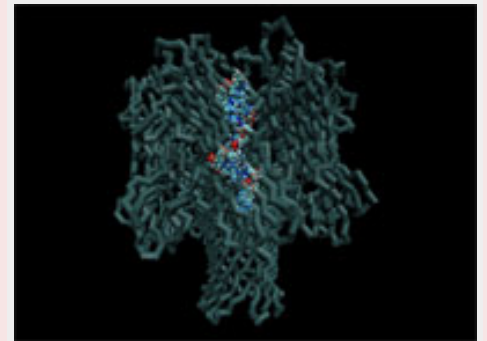
Success in the knowledge age requires cyberinfrastructure—computing resources, applications for research and learning, data repositories and tools for data analysis and long-distance collaboration.

And cyberinfrastructure requires people; not just technology experts, but also students, educators, businesspeople, government workers, scientists, artists, everybody. Give people access to world-class technology and the results will be exciting: new scientific discoveries, innovative educational practices, students collaborating across continents, small businesses selling in international markets.

Engaging People in Cyberinfrastructure, a group that builds human capacity by creating awareness of the opportunities afforded through cyberinfrastructure, understands that technology is a tool, a means to a wide range of ends rather than an end in itself. EPIC members hail from colleges and universities across the United States.

[Full article](#)

SPICE Wins European Award for Multi-Site Trans-Atlantic Simulations



A strand of DNA being pulled through the pore of hemolysin.

Image Courtesy Peter Coveney, University College, London

During SC|05 in Seattle, SPICE, the Simulated Pore Interactive Computing Environment, linked systems at three TeraGrid sites and two UK sites to explore translocation of a DNA molecule through the nano-sized pore of a channel protein. For this work, SPICE received the HPC Analytics Challenge award, a first-time SC award given for innovative techniques in rigorous data analysis, advanced networks and high-end visualization to solve a complex, real-world problem.

Last month, SPICE also won the Life Sciences Award of the International Supercomputer Conference for the paper that reports on the SC|05 project. Project leader Peter Coveney will present the paper at ISC in Dresden, Germany, June 27-30. It outlines the scientific motivation and why grid resources are critical for such projects, and also documents lessons learned in carrying out such a large-scale, multi-site project.

"Our work at SC|05, in which we collaborated with groups at Tufts and Brown Universities, established that there are applications sufficiently mature to make effective use of resources that span computational grids," says Coveney, who directs the Centre for Computational Science at University College, London.

Grid Computing Now!

Competition

Grid Computing Now! and the British Computer Society have announced a grid computing competition for students and young professionals. Entrants must develop a short description of a grid application that will solve a unique problem facing today's society. Prizes include an Xbox 360, the chance to attend a Microsoft European Research and Innovation Day in Brussels, eligibility for an internship with Intellect, a year's membership to the British Computer Society, a laptop computer and Microsoft software.

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 Office of Science/
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Designing and Supporting Data Management and Preservation Infrastructure

The 20th century brought about an "information revolution" that has forever altered the way we work, communicate, and live. In the 21st century, data is ubiquitous. Available in digital format via the Web, desktop, personal device, and other venues, data collections both directly and indirectly enable a tremendous number of advances in modern science and engineering.



Today's data collections span the spectrum in discipline, usage characteristics, size, and purpose. The life science community utilizes the continually expanding Protein Data Bank as a worldwide resource for studying the structures of biological macromolecules and their relationships to sequence, function, and disease. The Panel Study of Income Dynamics (PSID), a longitudinal study initiated in 1968, provides social scientists detailed information about more than 65,000 individuals spanning as many as 36 years of their lives. The National Virtual Observatory is providing an unprecedented resource for aggregating and integrating data from a wide variety of astronomical catalogs, observation logs, image archives, and other resources for astronomers and the general public. Such collections have broad impact, are used by tens of thousands of individuals on a regular basis, and constitute critical and valuable community resources.

[Full article](#)

This article, written by Fran Berman and Reagan Moore from the San Diego Supercomputer Center, appears in the current issue of [CTWatch Quarterly](#).

"Furthermore, it also underscored the need to run at even larger scales, with grids-of-grids."

[Full article](#)

Grids in the News

SURAgid Program to Expand in South

SURA Press Release, May 16, 2006

The Southeastern Universities Research Association (SURA) has approved plans for expanding its SURAgid program.

[Read More \(pdf\)...](#)

£5m bid to power future gadgets

BBC News, May 14, 2006

Researchers from five UK universities - Edinburgh, Glasgow, York, Manchester and Southampton - are designing a new generation of nano-electronic circuits.

[Read More...](#)

On the Grid: Grid computing is becoming an affordable utility for everyone

MIT Technology Review, May/June 2006

By Jonathan Schwartz

A few years ago, I had a series of meetings with CIOs and CTOs in New York City. I asked them all the same question: "Do you feel the grid you're building is delivering a competitive advantage to your business?"

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