

Calendar/Meetings

October 2005

24-27, [GEON Cyberinfrastructure Workshop at the University of Hyderabad, Hyderabad, India](#)

27-28, [APPT'05: 6th International Workshop on Advanced Parallel Processing Technologies, Hong Kong](#)

24-28, [Fourth EGEE Conference, Pisa, Italy](#)

24-28, [SEEK 2005 All Hands Meeting, San Diego, California](#)

28, [First IEEE/IFIP International Workshop on Autonomic Grid Networking and Management, Barcelona, Spain](#)

November 2005

1-2, [GADA '05: The Second International Workshop on Grid Computing and its Application to Data Analysis, Agia Napa, Cyprus](#)

1-3, [Chinese American Networking Symposium \(CANS\) 2005, Shenzhen, China](#)

[Full Calendar](#)

Image of the Week

Feature Story

SAMGrid Lifts Job and Data Handling Burden



SAMGrid Contributors

For scientists whose research includes working with large amounts of data, writing a grid computing application can be a daunting prospect. SAMGrid makes this task a little easier by integrating SAM, a robust data handling system in use by the particle physics experiments DZero, CDF and MINOS, with grid technology.

"SAMGrid integrates job handling and data handling with standard grid tools and services," said Adam Lyon from the Fermi National Accelerator Laboratory, where SAM and SAMGrid are developed and used. "In many grids it's the responsibility of the application to find, transport and annotate data. With SAMGrid, the application delegates SAM to find the best location to get the file from, transport it, record that you've asked for it and what you are doing with it."

SAM, which stands for Sequential Access via Metadata, started development in 1997 as a data handling system for Fermilab's DZero particle physics experiment. It was designed to store and retrieve data files and associated metadata—information about the data—including a complete record of the processing for each and every file.

[Full article](#)

Grids in the News

NSF Middleware Initiative Release 8 Enables Shared Cyberinfrastructure

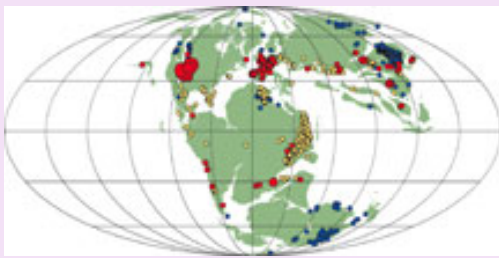
Working with research communities to provide development and access management tools for grid and other



research environments, the eighth release of the National Science Foundation Middleware Initiative (NMI-R8) helps to facilitate the complex resource management and security required in a shared cyberinfrastructure. NMI-R8 is available to the public for downloading under open-source licenses at <http://www.nsf-middleware.org>.

NMI-R8 marks two important "firsts" for the NMI program: the addition and integration of Ninf-G, the first non-U.S. developed component included in the GRIDS Center software suite; and GridShib, the first software enabling interoperability between the Globus Toolkit and Shibboleth federating software.

Ninf-G is a GridRPC reference implementation developed at the National Institute of Advanced Industrial Science and Technology in Japan. "Tanaka-san and the co-developers of Ninf-G are very active in both the Global Grid Forum's GridRPC group and PRAGMA (Pacific Rim Applications and Grid Middleware Assembly). GGF drives grid standards and PRAGMA provides a collaborative environment for an international group of scientists to practically apply grid technologies to their applications by sharing software and experiences." said Philip Papadopoulos, Program Director, Grid and Cluster Computing at San Diego Supercomputer Center. "Through PRAGMA, we learned how researchers in Japan and Asia Pacific were making productive use of Ninf-G and believed that this could be very useful software for the NSF



Coals (blue), evaporites (yellow) and dinosaur distributions (red) for the Late Jurassic period. (Click on image for larger version.)

Image courtesy of Allister Rees, University of Arizona

GEON has helped geoscientists bring together databases from several disciplines to address fundamental questions concerning the evolution of life, biodiversity through time, and mass extinctions in the context of changing geography and climate. The research summarized in this image suggests that dinosaur preservation was favored in environments toward the drier end of the climate spectrum.

[Read more...](#)

Link of the Week

Grid Computing Info Centre (GRID Infore)

The Grid Computing Information Centre aims to promote the development and advancement of technologies that provide seamless and scalable access to wide-area distributed resources. Visit this site, sponsored by the Gridbus Project, for its hundreds of grid-related links.

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Office of Science/
U.S. DOE

Centres join to forge e-Science tools for researchers

UK e-Science Programme Press Release, October 21, 2005

Three UK centres are joining forces to make Grid middleware, developed under the UK e-Science Programme, available and easy to use by e researchers in all disciplines.

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NSF Makes Cyberinfrastructure-TEAM Awards

NSF Press Release, October 18, 2005

The National Science Foundation (NSF) has awarded 11 projects for a total of over \$2.6 million in the inaugural year of its Cyberinfrastructure (CI)-TEAM program.

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NSF Next-Generation Cybertools Awards Go to Cornell and U. of Chicago

NSF Press Release, October 18, 2005

The National Science Foundation (NSF) has announced the first awards in its Next-Generation Cybertools program—an initiative designed to extend the boundaries of social and behavioral research and lead to fundamental advances in cyberinfrastructure—will go to research teams at Cornell University and the University of Chicago.

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Middleware audience. With the integration of Ninf-G into the GRIDS Center stack, we're also learning about the practical issues of sharing and supporting software across borders and languages and see this activity as an important pilot study."

[Read the full NMI press release](#)