



APRIL 2007

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*Image Courtesy
Reidar Hahn,
Fermilab*

Meetings and Events

See [iSGTW Calendar](#) for Full Listing of Upcoming Events.

ISSCG'07 Announcement

The fifth in the highly successful series of International Summer Schools in Grid Computing will be held at [Gripsholmsviken Hotell & Konferens of Mariefred, Sweden](#), near Stockholm, from 8th to 20th July 2007. OSG is contributing students, staff and organization to this grid school.

To find further details and to register for the school, [visit the web site](#).

Spotlight on an OSG Contributor

Open Science Grid News

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From the Executive Director

Mike Wilde led a very successful two day grid workshop at University of Illinois at Chicago this past month. ([See article below](#)). We are planning to review the workshop material and would welcome additional volunteers, both for review and for teaching classes.



Effort is ramping up to ensure sufficient throughput for the first Engagement production application. We will be knocking on more sites' doors for support for this over the next week.

Please make sure your communities have reviewed the VDT priorities and plans for the OSG 0.8.0 software release in August ([link](#)). Fourteen production sites have already moved to OSG 0.6.0, and there are a total of eighty-three compute production sites on VORS. We are hoping all sites will upgrade by June 15th. In addition, VDT 1.6.1f has been released. It fixes a security flaw in GSI OpenSSH, and bugs in the Generic Information Provider. Details, including how to upgrade, are available on the [VDT 1.6.1 Release page](#).

The [OSG Monitoring page](#) has been updated to point to new versions of the Site Availability Display (VORS), OSG Monitoring Information (BDII/CEMON), OSG Accounting information (Gratia), and VOMS service monitoring.

Finally, the CI Day at UC Davis in collaboration with Internet2, Educause and TeraGrid went very well.

~ Ruth Pordes

All Hands and Associated Meeting Summaries (Continued from Last Month)

Science Results from Grids

A number of scientists presented results from work they and their colleagues have done on grid resources. We summarize these presentations here.

[Applied Mathematics](#) - What is the minimum number of tickets you must buy to guarantee that you hold a winning ticket ...

[Astrophysics](#) - Steve Kent of Fermilab discussed Astrophysical Science with Grids...

[Experimental Particle Physics](#) - Why build particle accelerators?" is the first question Ashutosh Kotwal of Duke University and CDF asked his audience...

[Nanomedicine](#) - From Reza Toghraee of UIUC we learned about the role ion channels play in heart pulsing, neuron and muscle cells, and toxins...

[Nuclear Physics](#) - Jerome Lauret of BNL took us back to the big bang and its resulting "quark gluon plasma," and discussed how the STAR experiment studies this plasma...

CMS Tier 2

The CMS Tier-2 centers that operate the OSG services continue to make good progress toward a production level distributed computing infrastructure for CMS in time for the start of the experiment. All seven US facilities as well as the two Brazilian Tier-2 centers presented site reports.



Marcia Teckenbrock has worked at Fermilab since 1999 and has recently become part of the OSG Communications team. She is the webmaster for the OSG website, working with the director, communicator and other consortium members to keep the web site content fresh and accurate. As the OSG document database administrator and librarian, she performs system upgrades and testing, maintains database topics and user accounts, and assists users.

Marcia gets to exercise her creative flair when designing the layout of posters and brochures for meetings, conferences and outreach activities in which OSG participates. She is an editor of and contributor to this newsletter, and is responsible for publishing it. She has written her first research highlight for OSG on MiniBooNE, which is featured on the OSG web site and will be featured in International Science Grid this Week.

"Working on Communications keeps me on my toes." says Marcia. "There's something new every day, and a lot of work to be done. It's very exciting."

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Engagement: More Resource Providers Needed

The engagement team described their approach and experiences in bringing onto the OSG a group of scientists new to grid computing. Their protein design application has consumed 35k CPU hours in the past month or so. A side meeting was held with representatives of caBIG, CompBioGrid, GridChem, and others to discuss broader issues related to supporting non-HEP applications on OSG, and potentially leveraging tooling and applications across these projects.

[Read More](#)

International Partners

Two sessions were dedicated to International Partners. International speakers covered grid projects in Australia, Scandinavia, Europe, North America (Canada), South America (Brazil) and Asia. It was gratifying to see the undeniable similarities in design and goals to our own OSG.

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Storage

Patrick Fuhrmann presented the dCache Storage Element middleware. Discussion focused on simplifying dCache installation and configuration, improving monitoring and support for dCache Tier 1 and 2 centers, and coordination of effort between dcache.org and the newly-formed OSG storage team.

[Read More](#)

Midwest Grid Workshop

Adjacent to the skyscrapers that make up the Chicago skyline and overlooking the "Little Italy neighborhood, about 70 participants convened at the University of Illinois at Chicago March 24 and 25, 2007 for the [Midwest Grid Workshop](#).

Organized by OSG and its partners, attendees ranged from undergraduates with a passing knowledge of grid computing to professionals who already use the grid for science applications and are interested in using it in more powerful ways.

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*Image Courtesy,
Ben Clifford/
Mike Wilde*