



# A decade of iSGTW!

This issue marks the 10th anniversary of iSGTW. We would like to take this opportunity to thank all our readers and all those who have contributed to the publication over the last decade.

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**SCIENCE GRID THIS WEEK**

APRIL 28, 2005
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**Calendar/Meetings**

**APRIL**  
25-29, [ISGC 2005: The International Symposium on Grid Computing](#), Taipei, Taiwan

26-29 [5th Annual Access Grid Retreat 2005](#), Millbrae, CA

27-29, [GridPhyN All Hands Meeting](#), Chicago, IL

**MAY**  
1-5, [2005 Spring Internet2 Meeting](#), Arlington, VA

2-6, [Grid Asia 2005](#), Biopolis, Singapore

3, [Open Science Grid Consortium Council Meeting](#), Madison, WI

4-5, [US LHC OSG Technology Roadmap Meeting](#), Madison, WI

5-6, [GEON 3rd Annual Meeting](#), San Diego, CA

**Feature Story**

**Computational Chemistry Workshop Features Collaborations Large and Small**

Computational chemists may work individually or in small groups, but they need access to the same networks of computing resources developed for large-scale science and engineering projects. Researchers developing the Computational Chemistry Grid are working to provide chemists with such resources using the GridChem application and supercomputing resources from five collaborating institutions.



**Sangtae Kim**  
Credit: Blake Harvey. (Click on image to view larger version)

A GridChem tutorial kicked off the fifth annual Computational Chemistry Workshop, held April 17-19 at the University of Illinois' National Center for Supercomputing Applications in Urbana, Illinois. The workshop featured keynote speakers from the fields of chemistry and computing, including Sangtae Kim from the National Science Foundation, as well as presentations on the CCG and other grid projects from physics, molecular biology, nanotechnology and engineering.

"The CCG and GridChem are leveraging existing pieces of software and technology and using bits of glue to create an environment that will provide a collection of grid-based resources for chemical physics applications," explained the NCSA's John Towns. "We're trying to provide experimental chemists with an easier interface to simulation technology."

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**Fermilab's DZero Experiment Crunches Record Data with the Grid**

BATAVIA, IL-- Hundreds of scientists from the DZero collaboration at the Department of Energy's Fermi National Accelerator Laboratory are using the technology of the future to process particle physics data today. Using grid computing, facilities in six countries around the globe have begun to provide computing power equivalent to 3,000 one-gigahertz Pentium III processors to crunch more experimental data than ever before. In six months, the computers will churn through 250 terabytes of data-- enough to fill a stack of CDs as high as France's Eiffel Tower.



"We're using the grid to process three years' worth of data--one billion particle collisions--in six months," said Fermilab guest scientist Daniel Wickes, on leave from the University of Wuppertal, Germany, who heads the reprocessing effort. "DZero has a long history of using computing resources from outside Fermilab, including a project in 2003 to send a much smaller amount of data off-site for reprocessing. We knew that this much bigger effort, remotely processing ten times more collisions than before using five times the number of computers, would be possible."

As new data is recorded with the DZero detector at the Tevatron, the world's highest-energy particle accelerator located in Batavia, IL, it is processed into a form useable by physicists. The cluster of one thousand computer processors dedicated to DZero computing at Fermilab is kept busy processing the newly acquired data.

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**Graphic of the Week**



**MRI image from the Function BIRN Human Phantom Study**  
©2004 Drs. Gary Glover and Lara Foland, Stanford University, Function BIRN

The Biomedical Informatics Research Network (BIRN) is a National Institutes of Health initiative that fosters distributed collaborations in biomedical science using information technology innovations.

[Learn more...](#)

**Statistic of the Week**

**8MW**

Eight megawatts is the estimated amount of power necessary to run all computer processors and disk servers for the Large Hadron Collider experiments in 2008. This is equal to the power drawn by 10,000 toasters.  
**Credit: Ian Flisk, Fermilab**

**Grids in the News**

**LHC Computing Centres Join Forces for Global Grid Challenge**  
From the Interactions News Wire, April 25, 2005

Geneva, 25 April 2005 - Today, in a significant milestone for scientific grid computing, eight major computing centres successfully completed a challenge to sustain a continuous data flow of 600 megabytes per second (MB/s) on average for 10 days from CERN(1) in Geneva, Switzerland to seven sites in Europe and the US. The total amount of data transmitted during this challenge-500 terabytes-would take about 250 years to download using a typical 512 kilobit per second household broadband connection.

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Click the image above to view the first ever issue of SGTW on the interactions.org website.

issue marks the 10th anniversary of iSGTW.

iSGTW began as *Science Grid This Week (SGTW)*, which was first published in April 2005. Back then, the fastest supercomputer in the world had a

Linpack benchmark performance of around 140 teraFLOPS (compared to the current record of almost 34,000 teraFLOPS) and there were only around a third as many internet users as there are today.

The publication went international in November 2006, becoming *International Science Grid This Week (iSGTW)*. Since then it has grown steadily, receiving over a million visits from countries all over the globe. By email alone, *iSGTW* now has around 11,000 weekly subscribers.

We would like to take this opportunity to thank all our readers and all those who have contributed to the publication over the last decade.

Don't forget, you can subscribe to *iSGTW*'s free weekly newsletter [here](#) and you can also find us on both [Facebook](#) and [Twitter](#).

Please don't hesitate to get in touch with us via [editors@isgtw.org](mailto:editors@isgtw.org) if you have news you would like to share with our readers.

Finally, you may be interested to read some of our most popular feature articles from the last 10 years:

1. [Turning the microscope inwards: Studying scientific software ecosystems](#)
2. [CERN lends a hand to the origin of life](#)
3. [Virtual atom smasher in LHC@Home](#)
4. [Seven innovative ways to cool a scientific computer](#)
5. [From mice to men](#)

**Read more:** [From the early days of grid computing to the era of 'big science'](#).

-- Andrew Purcell

## Join the conversation

**Contribute**



Do you have story ideas or something to contribute? **Let us know!**

### OUR UNDERWRITERS

Thank to you our underwriters, who have supported us since the transition from International Science Grid This Week (iSGTW) into Science Node in 2015. We are incredibly grateful.

[View all underwriters](#)

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