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TO TOMORROW'S INTERNET**

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**Volume 7, Issue 6  
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Welcome to CENIC Today, the monthly newsletter of the Corporation for Education Network Initiatives in California.

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#### CENIC News

##### CalREN Optical Network Deployment Update

We can now report that 100% of the DCP node sites have been successfully migrated to CENIC's new optical backbone. As part of the build out of DCP, 4 additional node sites will be added over the next few months. Of the 23 CSU campuses, 22 have been migrated to the new CalREN backbone. One last campus, Sacramento State, has yet to be migrated because of its function as a 4CNet backbone hub site and infrastructure issues related to same. A few remaining CSU sites, off-site centers, will be migrated in the very near future. It is significant to note that as part of the migration to CalREN we have been able to substantially upgrade a number of CSU campuses to a high speed gigabit Ethernet connection and several more CSU campuses have high speed GigaMAN circuits on order.

Relative to the CCC sites, 73 out of 100 community college sites are now connected to CalREN. Of the remaining sites, we expect being able to upgrade and install six campuses in the near future. The remaining CCC sites have local construction or facilities delays which the service providers are working on. As soon as the carriers can be provided needed infrastructure, the remaining CCC colleges will be migrated to the CalREN backbone.

Finally, there are thirteen miscellaneous 4CNet subscribers or customers, eleven of which have been migrated to CalREN. Two such subscribers remain with one having its cutover date pending, and one site still awaiting delivery of a circuit.

Not only are we nearing completion of the migration of all campus connectivity to CalREN, but also the migrations have gone smoothly and no major service interruptions were experienced during the migration.

Source: Edwin Smith, CENIC

##### UC Merced Fiber Construction

The University of California has approved CENIC's design for last mile fiber to its newest campus, UC Merced. This fiber will link the campus and the current UC Merced headquarters at Castle Air Force Base to each other and to the Level 3 Fergus POP. The University of California will have ownership of twenty-four strands of LEAF fiber along this path, which is about 29 miles around.

Construction is expected to complete before the Fall 2004 opening of the new campus.

Source: Greg Scott, CENIC

### **One Gigabit or Bust Roundtable Meets in July**

The third One Gigabit or Bust Roundtable Workshop is scheduled for July 21-22, 2004 at the Hilton Oakland Airport. The Roundtable is open to all persons interested in pursuing next generation broadband in California.

Roundtable meetings are organized around topical task forces, covering topics ranging from rural issues to entertainment issues. Task forces are open to all participants and create an open, engaging discussion environment – one that encourages the variety of perspectives needed to come up with a realistic action plan for deploying gigabit broadband to every California business, educational institution and home by 2010.

In addition to task force meetings, the Roundtable will feature two keynote presentations. On Wednesday, Susan Estrada, Director of the One Gigabit or Bust Initiative, will speak about "One Gigabit or Bust – The State of the State". On Thursday, Seth Fearey of Connected Communities will talk about the progress made on "On the Road to a Gigabit Broadband: Are we there yet? A Self-Assessment Guide for Communities"

Agenda, registration & lodging information can be found at <http://www.cenic.org/gb/events/rt0704/agenda.htm>

### **Update: California's 2004-2005 State Budget for High Speed Networking**

The Budget Conference Committee continues to negotiate on the final outstanding issues in the 2004-05 state budget before sending the budget back to the Senate and Assembly for final approval. To date, the \$21 million for High Speed Internet2 for K-12 schools is included in the Conference Committee's version of the budget.

By keeping the State's commitment to the \$21 million in Budget item 6110 182 0001 for the High Speed Internet, schools will be able to continue to access the high speed network (CalREN) that California has worked so hard to establish and maintain over the past four years.

### **National Networking News**

#### **Accessibility Goal: Tear Down Barriers to Virtual Schooling**

For hundreds of thousands of students across the United States, virtual schooling--instruction that takes place entirely online--has opened educational doors previously inaccessible. But for students who are blind, visually impaired, or who have certain other disabilities, cyber-education programs might actually create more barriers than they remove.

Bringing down those barriers was the objective addressed by a select group of special-education experts and industry executives who convened earlier this month at the National Summit on Disability and Distance Education in Washington, D.C. Their goal was to form an agenda that would help make the promise of virtual instruction a reality for the nation's special-needs learners.

Source: eSchoolNews, <http://www.eschoolnews.com/news/showStory.cfm?ArticleID=5071>

#### **PUC Awards Grant Funds to Bring Telephone Service to Rural Communities Currently Unserved**

The California Public Utilities Commission (PUC) today approved funding for the following rural locations to assist in providing telecommunications services to these areas that are currently without telephone service:

- Wireline telecommunications service to the Yurok Tribe in Humboldt County in the amount of \$ 2,500,000;
- Combination of wireless and wireline infrastructure to the community of Iowa Hill in Placer County in the amount of \$1,834,900;
- Wireless infrastructure throughout Trinity County in the amount of \$2,500,000.

These funds are derived from the California High Cost Fund A for the Rural Telecommunications Infrastructure Grant Program.

Source: CPUC, [http://www.cpuc.ca.gov/PUBLISHED/NEWS\\_RELEASE/37322.htm](http://www.cpuc.ca.gov/PUBLISHED/NEWS_RELEASE/37322.htm)

#### **CISE Computing Research Infrastructure (CRI)**

The Computer and Information Science and Engineering (CISE) Computing Research Infrastructure program supports the acquisition, development, enhancement, and operation of research infrastructure that enables discovery, learning, and innovation in all computing fields supported by CISE. Supported infrastructure includes instrumentation needed by a few research or research and education projects, major experimental facilities for an entire department or for multi-institutional projects, and testbeds or data archives for an entire subfield of CISE researchers.

The CRI program will make three kinds of awards. Cost sharing is specialized.

Source: NSF, <http://www.nsf.gov/pubs/2004/nsf04588/nsf04588.htm>

### **NSF Funding Outlook Grim But Cyberinfrastructure's a Priority, Says NSF Director**

On Tuesday, National Science Foundation Director Arden Bement met with the Coalition for National Science Funding (of which CRA is a member) and warned the science community CNSF represents to lower expectations of increased funding for the agency in the near-term, saying the expectation of budget-doubling, as authorized by Congress and the President in 2002, "isn't reasonable."

"The NSF budget is correlated with the other non-defense research agencies," Bement said, "and those are not scheduled to grow very much [in the President's future budgets]." The Administration's priorities are very clear, Bement said: secure the homeland, fight the war on terror, and reduce the budget deficit.

Source: Computing Research Policy Blog, <http://www.cra.org/govaffairs/blog/archives/000084.html>

### **Third Frontier Network Assists Homeland Security Through Real-Time, Interactive Training**

Ohio's Third Frontier Network (TFN), the nation's most advanced research network, will assist the Great Lakes Educational Consortium for Homeland Security Training in regional first-response and anti-terrorism efforts. TFN initiatives that strengthen northwest Ohio's defense efforts were highlighted today at Owens Community College.

"Technological contributions such as the Third Frontier Network are fundamental to both the economic and national security of the Fifth District and the State of Ohio," said Congressman Paul Gillmor (R-Old Fort). "The network will play a vital role in securing Ohio's place in winning the war on terrorism."

TFN will link Owens, the University of Findlay and higher education consortium members to area police, fire and emergency personnel for seminars, consultation and equipment demonstrations. The network will allow fire and police departments to conduct exercises, via distance learning, on a variety of simulated terrorist incidents, emergency hazards and natural disasters.

Source: I2-News, <https://mail.internet2.edu/wws/arc/i2-news/2004-06/msg00000.html>

### **NSF Middleware Initiative (NMI) R5 Released**

The study of Alzheimer's disease and the analysis of particle collisions may not appear to have much in common, but behind the scenes, middleware being developed with support from the National Science Foundation (NSF) is helping groups of researchers in neuroscience, physics and other fields to apply the power of grid-based computational resources.

Spanning 14 universities and 22 research groups, the growing Biomedical Informatics Research Network (BIRN) is establishing the cyberinfrastructure, or integrated information technology configuration, needed to facilitate health care research for large-scale data sharing and analysis. The ability to share and compare massive data sets such as MRI brain scans or high resolution electron microscopy images is essential to participants' research into Alzheimer's disease, depression, schizophrenia, multiple sclerosis and other disorders.

Source: I2-News, <https://mail.internet2.edu/wws/arc/i2-news/2004-05/msg00004.html>

### **WiMax in the Wings**

A key electronics industry group has approved a significant standard for wireless broadband specifications known as "WiMax," giving a boost to a technology proclaimed as a breakthrough for cheap high-speed Internet access.

WiMax is essentially radio technology that promises to deliver two-way Internet access at speeds of up to 75 megabits per second at long range. Its backers claim that WiMax can transmit data up to 30 miles between broadcast towers and can blanket areas more than a mile in radius with bandwidth that exceeds current DSL and cable broadband capabilities.

Source: CNET News.com, [http://news.com.com/WiMax+in+the+wings/2100-1039\\_3-5247984.html?tag=nefd.lede<br%20>](http://news.com.com/WiMax+in+the+wings/2100-1039_3-5247984.html?tag=nefd.lede<br%20>)

### **Brewster Kahle on the Internet Archive and People's Technology**

Brewster Kahle is the founder and digital librarian for the Internet Archive (IA). He is also on the board of the Electronic Frontier Foundation.

The IA started out as just that -- a non-profit organization dedicated to taking snap shots of the entire Web every six months, in order to create a searchable archive.

One of the main goals of the Internet Archive is to provide "Universal Access to All Human Knowledge." It sounds like a lofty task, but Brewster is firmly committed to it, and truly believes that it is achievable. Anyone in his presence for five minutes or more is likely to feel the same way, because his enthusiasm is quite contagious.

Source: O'Reilly OpenP2P.com, <http://www.openp2p.com/pub/a/p2p/2004/01/22/kahe.html>

### **About CENIC**

CENIC is a not-for-profit corporation serving California Institute of Technology, California State University, Stanford University, University of California, University of Southern California, California Community Colleges and the statewide K-12 school system.

CENIC's mission is to facilitate and coordinate the development, deployment and operation of a set of robust multi-tiered advanced network services for this research and education community.

More information about CENIC can be found at <http://www.cenic.org>.

### **Subscription Information**

You can subscribe and unsubscribe to CENIC Today via the web at: <http://lists.cenic.org/mailman/listinfo/cenic-today>

Keep track of the Digital California Project and the One Gigabit or Bust Initiative by visiting the CENIC publications page or by subscribing directly to the publications. Visit <http://www.cenic.org/pubs/> for more information.

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