

The CENIC On the Road to a Gigabit Awards honor California visionaries who are applying network technology in innovative ways to encourage the development and implementation of a ubiquitous gigabit state-wide network by 2010. Showcasing the pioneering ideas of today's visionaries and the promise of tomorrow's Internet, the awards highlight the technologies paving the road to a gigabit world.

CENIC is a not-for-profit corporation serving the 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 multitiered advanced network services for this research and education community. For more information on CENIC, see www.cenic.org.

The California Institute for Telecommunications and Information Technology (Cal-(IT)²) is one of four institutes funded through the California Institutes for Science and Innovation Initiative (Cal ISI). Created in late 2000 through the governor's office, Cal ISI aims to ensure that California maintain its leadership in cutting-edge technologies. As part of CISI, the mission of Cal-(IT)² is to extend the reach of the current information infrastructure throughout the physical world, enabling anywhere/anytime access to the Internet. More than 220 professors and senior researchers from UC San Diego and UC Irvine are collaborating on interdisciplinary projects, with support from more than 50 industry partners that have pledged \$140 million in funding. Total funding from state, federal, campus, and private sources is estimated at \$400 million over five years. For more information, see www.calit2.net.



2004 On the Road to a Gigabit Awards Luncheon

March 15, 2004

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The Awards

Biggest, Fastest in the West

The Biggest, Fastest in the West Award honors the fastest and most scalable high-performance networking application/technology.

First Place **On Demand Infrastructure: A Basis for High Performance Grid Computing**

San Diego Supercomputer Center
IBM

Grid computing is potentially the biggest change on the horizon for high-performance computing. With SDSC's "on demand" infrastructure, scientists can share data efficiently and effectively between sites—they will have the ability to run jobs anywhere without shipping data to the selected site, and have the ability to use data from anywhere and at high speeds.

Community

The Community Award honors innovative uses of high-performance networking to overcome network disadvantages (economic and/or location-based).

First Place **Behind the Redwood Curtain: The Power of Community Activism in Broadband Deployment**

Redwood Technology Consortium (RTC)

Humboldt County, on the North Coast of California, was a poignant example of the digital divide, where the only link to move data was an at-capacity microwave link. The RTC, via broadband advocacy, illustrated the power of what a community can accomplish when it unites behind a common goal. By galvanizing local government, businesses and individuals, RTC helped Humboldt County complete a 21-mile fiber gap and bring advanced telecommunications services to this remote, rural area.

Education

The Education Award honors innovative uses of high-performance networking in K–12 and higher education.

First Place **Educational Telecommunications Network**

Los Angeles County Office of Education

Educational Telecommunications Network's (ETN) track record of local and national telecasts is now being directed toward moving content over the CalREN-DC network—thus providing more tools for educators, the general public and other consumers of education. ETN supplies educators with the means to reach learners through a combination of traditional broadcast media production, digital technology enhancements and the ongoing exploration of new digital technologies.

Honorable Mention **Teaching and Learning Interchange**

University of San Francisco
California County Superintendents Education Services Association
Kings County Office of Education
San Diego County Office of Education
San Joaquin County Office of Education
WestEd

Gigabit or Bust

The Gigabit or Bust Award honors the high-performance networking application/technology that best exemplifies what life would be like in a gigabit-connected world.

First Place **Desert Sands Gigabit Ethernet**

Desert Sands Unified School District (DSUSD)

Supporting a student population of more than 26,000 at 28 school sites, DSUSD partnered with providers of service, equipment and infrastructure to provide early adoption of Gigabit technology to the mid-size K–12 environment: implementing a gigabit-capable network within the boundaries of its territory to provide gigabit-to-the-desktop for every teacher and student.

Honorable Mention **Education Applications for a Gigabit Network**

El Monte Union High School District

Innovation

The Innovation Award recognizes innovative contributions to high-performance networking that best exemplify the creative spirit and the bottoms-up philosophy that created the Internet.

First Place **Fontana Advanced Community and Educational Services Network**

City of Fontana

The City of Fontana has embarked on a process to build out an advanced communications services network to leave no part of the city behind, regardless of economic level or zoning. The network will link all businesses, schools, hospitals and homes with a fiber optic infrastructure owned by the City, in the same manner it owns the sewer and roads.

Partnership

The Partnership Award honors the best use of high-performance networking developed by a private/public partnership.

First Place **Ultralight Partnership**

California Institute of Technology
CERN
Los Alamos National Laboratory
Stanford Linear Accelerator Center

Teams of physicists, computer scientists and network engineers at Caltech, CERN, SLAC, LANL, Fermilab, Florida International University, University of Florida, University of Michigan, Brookhaven National Laboratory and the MIT Haystack Observatory have started to develop and deploy UltraLight, the first of a new class of integrated information systems to support the decades-long research program at the Large Hadron Collider at CERN. The project possesses profound implications for integrating information sharing and on-demand audiovisual collaboration in our daily lives, with a scale and quality previously unimaginable.

Honorable Mention **George Wright Society's Virtual Trip to Fish Creek**

California State Parks
High Performance Wireless Research and Education Network
San Diego County Office of Education