June 19, 2003
**New Palomar Observatory CCD Camera Utilizes HPWREN Backbone for Near-Real-Time Data Transfer:**

Scientists Hope to Better Understand Cosmos via the Palomar QUEST

Few realize that current astronomers can only see approximately a few percent of the total cosmos - the rest is often referred to as “dark energy” and is yet to be seen or understood. Thanks to a new project at the Palomar Observatory, however, we may be one step closer to catching a glimpse of this massive unknown.

*Details: [http://hpwren.ucsd.edu/news/030619.html](http://hpwren.ucsd.edu/news/030619.html)*

January 7, 2003
**Wireless Network Boosts Supernova Search to Stellar First Year**

In results presented this week at the 2003 meeting of the American Astronomical Society in Seattle, astrophysicist Greg Aldering and colleagues report that their supernova factory project has discovered an unprecedented 34 new supernovae in its first year.

*Details: [http://hpwren.ucsd.edu/news/030107.html](http://hpwren.ucsd.edu/news/030107.html)*

August 1, 2001
**Palomar Observatory Receives High-Speed Network Connectivity Via HPWREN:**

Near-Earth Asteroid and Supernova Researchers Reap Benefits

More than 50 years have passed since astronomers first started using the Palomar Observatory’s 48-inch Oschin telescope to study the night sky. Known throughout the world as the meter-class-aperture telescope with the largest field of view, the Oschin’s most recent “claim to fame” is its link to an NSF-funded 45 Mbps network - the High Performance Wireless Research and Education Network (HPWREN).

*Details: [http://hpwren.ucsd.edu/news/010801.html](http://hpwren.ucsd.edu/news/010801.html)*

May 2, 2001
**Mount Laguna Observatory Streams Images From Telescope to SDSU Laboratory via HPWREN**

Last month marked an important event in the history of San Diego State University’s 15-acre Mount Laguna Observatory (MLO). On the evening of April 16, astronomer Bill Welsh streamed images from MLO’s 40-inch telescope to his laboratory at San Diego State University (SDSU) via the 45 Mbps backbone of the NSF-funded High Performance Wireless Research and Education Network HPWREN. The following morning, the images were displayed to students in Professor Janet Wood’s Astronomy 101 class.

*Details: [http://hpwren.ucsd.edu/news/010502.html](http://hpwren.ucsd.edu/news/010502.html)*

December 13, 2000
**Mount Laguna Observatory Astronomers Benefit from HPWREN**

Situated at an elevation of 6100 feet, San Diego State University’s Mount Laguna Observatory (MLO) is 35 air miles east of the SDSU campus (on a direct line of sight) and 45 miles from metropolitan San Diego. Modern astronomical telescopes are equipped with electronic imaging detectors known as CCDs, which consist typically of arrays of two thousand by two thousand pixels. An astronomer at the observatory can generate a few hundred images on a long winter night. In order to transfer the data from Mount Laguna to on-campus facilities, or to other collaborators worldwide, digital audio tapes (DATs) are currently used. However, high-speed Internet access provided by UC San Diego’s HPWREN project will soon open up a new opportunities for MLO astronomers.

*Details: [http://hpwren.ucsd.edu/news/001213.html](http://hpwren.ucsd.edu/news/001213.html)*