



- Backbone/relay node
- Astronomy science site
- Biology science site
- Earth science site
- University site
- Researcher location
- Native American site
- Incident management site

- 45Mbps 6GHz licensed
- 45Mbps 5.8GHz license-exempt
- ~8Mbps 2.4GHz license-exempt
- ~3Mbps 2.4GHz license-exempt
- 115kbps 900MHz license-exempt
- dashed = planned

New National Science Foundation ITR award

“Integration and Analysis of Reliable Networking for Remote Science, Education and First Responders”

Principal Investigator: Hans-Werner Braun, UCSD/SDSC

Co-Principal Investigator: Frank Vernon, UCSD/SIO

Collaborating Investigators:

Richard Ellis, Caltech, Optical Observatories

Ron Serabia, former CDF Fire Captain

high performance wireless research and education network

<http://hpwren.ucsd.edu>

Objectives

- **Treatment of HPWREN as a program, rather than a project**
- **Network research focus of the new award**
 - **network measurement and analysis**
 - **traffic prioritization**
 - **change impact analysis**
- **Continuation and evolution of the HPWREN infrastructure**

high performance wireless research and education network

<http://hpwren.ucsd.edu>

Note!

The National Science Foundation has already invested millions of dollars into HPWREN, and has expressed intentions of investing millions more. Let's make sure good science, education and other things are being produced. And lets make sure we appreciate NSF and give them credit for their investment in our collective work products.

high performance wireless research and education network

<http://hpwren.ucsd.edu>