

## HAWC 3QFY2015 Progress Report

HAWC began full operations at the end of March 2015. HAWC continues to operate with a high duty factor of > 90%. More computers have been installed on site to enable online analysis for transient searches. Also, more computers have been added to the two archive facilities to store HAWC data. Current data volume is 20MB/sec=1.7 TB/day. LANL's Brenda Dingus, HAWC operations manager, traveled to the HAWC site in June to work on the repair of the last <5% of the PMT front electronics channels that had issues identified by the laser calibration system.

LANL's Pat Harding leads the Particle Physics Science Working Group for the HAWC collaboration. In April we published the paper, "Milagro limits and HAWC sensitivity for the rate-density of evaporating Primordial Black Holes", *Astroparticle Physics*, 64, 4, April 2015.

Brenda Dingus is on the HAWC internal review committee of HAWC's first paper of gamma-ray observations. This paper is based on the HAWC 111 data set which resulted in over 20 standard deviations from the Crab and several sources detected within the Galactic plane.

Brenda Dingus submitted a LANL LDRD proposal for installation of an array of outrigger detectors around HAWC in order to increase HAWC's sensitivity to the highest energy gamma-rays. The proposal was accepted for funding which will begin in October 2015 and will last for 3 years.