

# Inside Wallops

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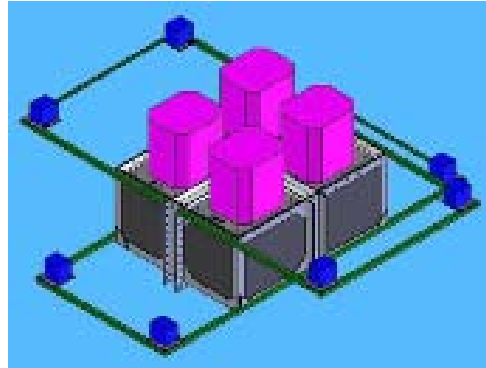
## NASA Balloon To Carry High Altitude Student Platform to the Edge Of Space

NASA is teaming with student groups from four universities for a launch that will carry the first flight of the High Altitude Student Platform (HASP) to the near space environment of the upper atmosphere.

An 11 million cubic foot NASA scientific balloon will carry HASP, designed and built by a student team at the Louisiana State University (LSU) and a 600 pound payload with a complement of student experiments to an altitude of approximately 124,000 feet. The launch from Ft. Sumner, N.M., is expected to last about 15 hours.

During this flight, HASP will be carrying science experiments developed by student groups from across the nation to study the cosmic ray flux, test the performance of different rocket nozzle designs, measure the thermal characteristics of the balloon, evaluate an accelerometer-based inertial guidance system and perform remote sensing imaging. In addition, HASP will

be carrying a unique CosmoCam to provide live, streaming video from the payload during launch and flight.



Artist's rendering of HASP with payloads.

Student teams designed and developed experiments during the academic year and then integrated the experiments with the HASP payload during the summer. HASP provides the experiments with power, data communication to the ground and, if necessary, uplink commanding allowing the student team to monitor and control their experiment throughout the flight.

HASP, funded by the Louisiana Board of Regents, LSU Department of Physics & Astronomy and the Louisiana Space Consortium, provides undergraduate and graduate students the opportunity to test fly space experiments and/or components they design without the expense, scheduling difficulty and risk associated with a rocket launch into low Earth orbit.

The experiments will be recovered allowing the students to review their flight data.

Teams participating in the flight are from Louisiana State University, University of Louisiana – Lafayette, Texas A & M University and the University of Alabama – Huntsville. CosmoCam was designed and built by Rocket Science, Inc., West Friendship, Md.

To view real-time flight tracking and video of the flight and for more information on HASP visit:  
<http://laspace.lsu.edu/hasp/>

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## Johnnie Long Joins the Retiree List



Photo by Justin Senter

Johnnie C. Long retired effective Aug. 2, 2006, with more than 41 years of government service.

Long served 11 years in the U.S. Air Force and assumed a position as a radar technician at NASA Wallops Flight Center in 1976.

In 1980 he completed the NASA Engineering Technician Apprenticeship Training Program and joined the Electro Ground Support Equipment Section in 1982.

Long joined the Applied Engineering and Technology Division in 1997 and a member of the Electrical Systems Branch, which evolved to the Wallops Engineering Branch in 2002 where he remained until his retirement.



Karen Thornes, WEMA General Manager, (above) and Marv Bunting, Computer Sciences Corporation, received the Executive Safety Council's Quarterly Safety Award from Senior Manager, John Campbell on August 22.



## Wallops Employees Assist in Medical Mission to Peru

Wallops employees Dave Lang, Northrop Grumman, and Joe Ferster, Honeywell, assisted in a medical mission to Incahusai, Peru, from August 12 to 23, that resulted in the treatment of 634 patients in 3 ½ days and the saving of a woman's life.

In addition to their jobs at Wallops, Ferster and Lang are emergency medical service (EMS) providers and members of the Oak Hall Rescue squad. Supplies and personnel from Oak Hall Rescue, combined with medical staff from Maryland, Delaware and local doctors were vital in the saving of a woman's life in the remote Andes village of Incahusai, Peru. The woman had given birth 15 days before being brought to the clinic in septic shock.

The new mother was transported to the clinic in an animal skin stretcher with a tepee top using saplings for support. It took three hours over mountain trails to arrive at clinic in Incahusai.

The clinic did not have electricity. Everything was done by flashlight or a special lamp designed and built in the United States.

The patient was given one liter of fluid and started on an intravenous solution of antibiotics. This was not enough, so a second liter of intravenous fluid was started. The local doctor decided to transport the young woman to a hospital in Chicayo, Peru. Having no money to pay

for medical support, her husband was originally against the idea. In Peru, payment for medical care is required before treatment will be given. Those who do not have the funds are refused treatment.

The U.S. team had received last minute donations and used these funds to pay for the woman's medical care. She was transported by car down dark winding roads, for six to seven hours to reach the hospital, with the doctor, her husband and driver in the car. At last report the patient had received 4 liters of blood, had surgery and was doing fine.

"If we did not have the supplies provided by Oak Hall Rescue to help stabilize the patient, there is no doubt she would have died within the day," said one of the team.

For anyone thinking of participating in future Medical Missions, there is a 16-hour flight from the United States to Lima, Peru. There is a 12 hour flight from Lima to Chicayo, Peru and an 8-hour drive up the Andes Mountains on switchback roads to Incahusai. Expect to work 10 to 12 hour days with marginal sleep. It is not a trip for the "faint-of-heart."

In addition to Lang and Ferster, the United States team consisted of Sue Ferster, EMS; Benita Harris, Registered Nurse (RN); Emily Smith, Licensed Practical Nurse; Jennifer Walkup, RN; and Frances Arriola, Linguistics.

## Let's go to the Beach

The annual beach cleanup of Wallops Island is scheduled for Saturday, September 9. This activity is part of the International Coastal Cleanup.



PAO Photo

The cleanup begins at 9 a.m., takes about two hours, and is open to all employees, their family and friends. Employees will need to present their badge at the Wallops Island gate to participate in the cleanup.

During the cleanup, material that is collected will be classified and tabulated. This information goes to the Center for Marine Conservation, which monitors the health of the U.S. Coastline.

To register, contact Marianne Simko at [Marianne.F.Simko.1@gsfc.nasa.gov](mailto:Marianne.F.Simko.1@gsfc.nasa.gov) or call x2127 by September 8.



Have a safe  
Labor Day holiday.

The next  
"Inside Wallops"  
will be issued  
September 11.

## Wallops Shorts.....

### Launch

A NASA Terrier-Black Brant sounding rocket was launched from White Sands Missile Range (WSMR), N.M., on August 25. The reimbursable launch was the second launch presenting a multi-body dynamic target above 120 km from the north end of WSMR. Actual altitude was 382.2 km. William Audenaert, Missile Defense Agency, was the principal investigator. Ted Gass, NASA Sounding Rocket Operations Contract, was the mission manager.

### In the News

Aviation Week, "Vandenberg East"

Eastern Shore Post, "Wallops & NOAA Personnel in Africa Studying Origin of Hurricanes"

## Maryland Renaissance Festival Tickets

The Maryland Renaissance Festival held in Crownsville, Md., just outside Annapolis runs every weekend from August 26 to October 22. Tickets are now available in the Exchange Store, Building E-2.

Call Karen Shannon at x2020 for more information.

*Inside Wallops* is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees. Recent and past issues of *Inside Wallops* also may be found on the NASA Wallops Flight Facility homepage: [www.wff.nasa.gov](http://www.wff.nasa.gov)  
Editor  
Asst. Editor

Betty Flowers  
Rebecca Hudson



Schools are opening.  
Watch for little people!



The Wallops Executive Safety Committee has recommended that parking behind Building E-2, Cafeteria be prohibited, except for specific spaces designated for official photo lab, cafeteria loading and unloading, and custodial vehicles.

"No Parking" signs have been posted. Security will be issuing warnings to drivers of vehicles that park in this area.