

Spaceport News

John F. Kennedy Space Center - America's gateway to the universe

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Kennedy employees continue assisting FEMA

Disaster recovery process humbles federal volunteers

By Linda Herridge
Staff Writer

Coming to the aid of those in need, several civil service employees from Kennedy Space Center enlisted in the Federal Emergency Management Agency (FEMA) volunteer program to help in recovery efforts in the storm-ravaged areas of the Gulf Coast. Currently, 26 workers have been trained and sent to disaster recovery centers to assist Katrina storm victims.

"I am extremely proud that KSC is going above and beyond the call of duty to assist the devastated areas of the Gulf Coast following both hurricanes," said Center Director Jim Kennedy.

Dennis Armstrong, KSC Web site manager for the External Relations directorate, has been in

Wiggins, Miss., about 40 miles north of Gulfport. Though the area wasn't directly hit by Katrina, it was affected by multiple tornados.

"These folks didn't have much to begin with," Armstrong said. "It's a rural area with a poverty-stricken populace, half of whom lived in mobile homes. Now many of them have nothing."

Armstrong and fellow workers interview people affected by the storms and help to identify what FEMA benefits may be available to them. They also refer people to other organizations and services such as the Red Cross, crisis counseling, Internal Revenue Service for disaster tax



MEREDITH CHANDLER of KSC's Spaceport Engineering and Technology directorate and a FEMA volunteer unexpectedly met former Pres. George Bush Sr. in Waveland, Miss.

deferments or rebates, the Hope Coalition and many others.

"FEMA has a big job and it can be frustrating when things

seem unnecessarily disorganized," Armstrong said. "But everyone here knows that we are

(See FEMA, Page 2)

NASA's CALIPSO/CloudSat features 3-D technology

Two NASA satellites soon will launch to give us a unique view of Earth's atmosphere. CloudSat and Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations (CALIPSO) are undergoing final preparations for launch from Vandenberg Air Force Base, Calif. At press time, launch was scheduled for early November at 5:01 a.m. EST.

CloudSat and CALIPSO will provide a new, 3-D perspective of Earth's clouds and airborne

particles called aerosols. The satellites will answer questions about how clouds and aerosols form, evolve and affect water supply, climate, weather and air quality.

The satellites employ revolutionary tools that will probe Earth's atmosphere. Each spacecraft carries an "active" instrument that transmits pulses of energy

(See 3-D, Page 7)





Jim Kennedy
Center Director

The Kennedy Update

Hi, everyone! The can-do spirit of the work force has shown through again. When Hurricane Wilma set her sights on the Florida peninsula, our hurricane preparedness team kept constant watch on the storm's progress, while management spread the word to employees to prepare for any scenario if the system produced a threat to the center.

Luckily, damage to the center was minimal. Kudos to the Emergency Operations Teams, Rideout Crew, and Debris Assessment and Recovery Team for their dedication before, during and after the storm. I hope that each of you fared well through Wilma.

As to the shuttle program, a Tiger Team is close to resolving the external fuel tank foam loss and NASA is targeting a May 2006 launch. I'm confident

shuttle workers will clarify this issue and provide the safe fixes to fly again.

I'm also very proud of the KSC work force who helped the NASA family and friends at the Michoud Assembly Facility near New Orleans and the Stennis Space Center in Mississippi. Their work, coordinated through the outstanding leadership of Wayne Kee, helped those areas improve their infrastructure. Please continue to support these volunteers while the recovery efforts continue.

We still have not forgotten the successful return of the STS-114 crew after its historic August mission. I hope to see everyone at the STS-114 Crew Return Celebration from 6 to 9:30 p.m. on Tuesday, Nov. 1 at the Visitor Complex. You will not forget this festive event as you'll have a chance to talk to members of the

STS-114 crew while enjoying good times with your fellow employees.

The Launch Services Program has been hard at work, as well. Targeted for an early November launch from Vandenberg, the CloudSat/CALIPSO mission will join other satellites in NASA's "A-train" constellation of Earth observing satellites. These satellites will further aid the nation's weather observers as they predict future projections of hurricane paths and other weather changes.

Once the exact date is announced, be sure to check out mission commentary and the exciting launch on NASA TV or at the KSC Web page!

Florida Space 2005 takes place Nov. 15 through 17 at the Visitor Complex. The state's

diverse space community will come together to discuss future opportunities and space policy. This unique conference builds on the past successes of Space Congress and the Cape Canaveral Spaceport Symposium. Experts from NASA, the 45th Space Wing and the Florida Space Authority will talk about new work resulting from the vision for space exploration.

The NASA civil service work force "blew up the thermometer" with their contributions to the Combined Federal Campaign! By exceeding our campaign goal, we've helped soften the personal hardships experienced by thousands of our fellow Americans who are rebuilding their lives.

It makes me "KSC and proud to be!" Have a great week!



FRIENDS OF Jim Jennings (third from left) gathered on Oct. 13 at Pascal's Downtown Bistro in Titusville to wish him well in his retirement after 35 years of service for NASA. Jennings is a former deputy director at KSC.

FEMA . . .

(Continued from Page 1)

helping people who really need it, and bottom line, that's what really matters."

Brian Rutkowski and Juan Gordon, from the Spaceport Engineering and Technology (SE&T) directorate, are helping at several disaster recovery centers in southern and central Mississippi. They help to discern needs and refer people for a range of services from food, shelter, grants and hazard mitigation, to small business assistance, aging services, temporary housing and trailers.

"We've been doing our best to help the victims of this tragic disaster," wrote Rutkowski in a recent e-mail.

Rutkowski and Gordon

helped in Pass Christian, a disaster town that has nothing left because Katrina's eyewall hit the area. Rutkowski wrote they were living in tents, and most of the people are homeless and living in tents or shelters while waiting for thousands of trailers to become available.

Recently, Rutkowski and Gordon were selected by the head disaster recovery coordinator in Mississippi to become part of a task force. They will move into a new recovery center, set up the infrastructure, train the new employees and then move on to a new assignment.

Meredith Chandler, also from SE&T, works 12-hour days inside a large warehouse in the town of Waveland, Miss., which was severely hit by Katrina's eyewall. While working in the

town, she had the unexpected opportunity to meet former Pres. George Bush Sr. as he visited the area to observe recovery efforts.

Chandler signs people up for trailers and checks on the status of their FEMA accounts. The recovery center recently moved from a large tent in a K-mart parking lot to the warehouse. The area was under several feet of water during Katrina, according to Chandler.

"Every person who comes in has a different story and they want to be heard," Chandler said. "We spend a lot of time listening, and trying our best to understand, although we'll never be able to fully understand what they have been through."

Other KSC workers helping in the Gulf Coast include: Johnny Nguyen, Bradley O'Toole and

Andres Adomo from Procurement; Stephen Pilkenton, Melissa Clevenger, Kristen Luther and Ella Kinberg from Center Operations; Thomas Lippitt from SE&T;

David Robertson and Pamela Bohn from Safety and Mission Assurance; Donald Hammel, Stephen Swichkow, James Silviano, Kenneth Williams, Khoa Vo, Thomas Ford, Julianna Tassy and Curtis Williams from Space Shuttle; Janet Letchworth, Glenn Rhodeside and Robert Parks from International Space Station and Payload Processing; and Barry Bowen from Independent Technical Authority and Systems Management Office.

Many other workers have signed up to participate in the volunteer program.

NASA praises small businesses at expo

By Jeff Stuckey
Editor

When Ralph Thomas gave opening remarks at the Business Opportunities Expo 2005 on Oct. 18 at Port Canaveral, his words likely inspired the 125-plus businesses and hundreds of attendees. The associate administrator for the Office of Small and Disadvantaged Business Utilization at NASA Headquarters in Washington expressed how much the agency depends on their help.

"When the new NASA administrator, Mike Griffin, gave his recent 'State of the Small Businesses at NASA' address, he promised to keep all the programs like this going because it has made NASA so successful,"

Thomas said. "There are many examples of this success, such as in 2004 when the agency set nine NASA small business performance records, including the most total prime subcontractor dollars spent with small businesses, which is \$3.65 billion. Kennedy Space Center has contributed greatly to that success."

Sponsored by the NASA/Kennedy Space Center Small Business Council, 45th Space Wing and Canaveral Port Authority, the expo is one of the largest government trade shows in the state of Florida. Vendors showcased a variety of product and service areas, such as computer technology, communication equipment and services, and construction and safety



products.

The NASA/KSC Small Business Council consists of United Space Alliance, The Boeing Company and Space Gateway Support. The council

works with NASA's Central Industry Assistance Office to provide support to small businesses that want to work with KSC.

My Story

By Sheila Murrey
JBOSC analysis
and support



This column provides Kennedy Space Center employees a chance to tell their life's story. Readers are encouraged to submit a first-person article between 400 and 500 words. Talk about your family, career and most memorable experiences. A little bit about your career at KSC will be most interesting, as well. E-mail "My Story" submissions to Bruce.Buckingham-1@nasa.gov.

I'm a mother of two grown children, Marie Bivens and Matt Cline. Marie is 25 years old, married and works for Food Lion in Deltona. Matt is 23 years of age and he and his wife own Cline's Painting of Deltona, where they specialize in interior and exterior home painting. I'm married to another Kennedy Space Center employee, graphics artist and musician/songwriter Richard Murrey of InDyne.

I've been a single parent in the past and know what it's like

to work full time and go to school. I earned an associate's degree in business, then later a bachelor's degree in visual communications, graduating in October 2004 Summa Cum Laude.

As far as work goes, my education and background have been in information technology within higher education for many years. I don't always love computers (smile), but I do enjoy troubleshooting things, analyzing problems and teaching

others.

I met my husband by going online. I guess that makes sense for a computer person, but actually I had to be convinced by two of my friends. We began corresponding in the spring of 2002 and by Feb. 25 this year, we were married.

Our wedding day was definitely one of the happiest of my life. I sing and he plays guitar, so a future goal of ours is to perform together at local restaurants.

Initially, I came to KSC on a temporary contract via Spherion. I was assigned to work for Space Gateway Support as an engineering support specialist in Construction Services on the JBOSC

opportunity I had interviewed for.

Immediately I was consoled by my new KSC friends and coworkers within SGS. They told me they would understand if I left but hoped I'd stay.

I made the list of pros and cons of both jobs, then looked beyond it. For me, there was no choice. I wanted and needed to make a decision based upon "quality of life." Some might have called it a crazy decision, but I chose to remain in the temporary position with SGS.

Luckily for me, a few months into my contract with SGS, Construction Services brought me on full time! Whew!

Later, I qualified for another

position within SGS, this time in the Information Management Directorate. Now, I work in the same

"The best part is that my husband and I have a lot of quality time together every day between carpooling and sharing lunches together."

contract. It was so exciting to be working here, since I had worked at Embry-Riddle Aeronautical University for 10 years.

I had hoped the temporary work would turn into full-time employment. However, just three days after starting my job here, I was stunned when I got a call about another full-time job

building, upstairs from my first post, in the position of programmer analyst on the JBOSC contract for SGS.

And the best part is that my husband and I have a lot of quality time together every day between carpooling and sharing lunches together. I'm so glad to be part of the KSC team!

Cape Canaveral Lighthouse stands as a be

By Cheryl Mansfield
Staff Writer

As dawn breaks over the point of land that juts from the eastern coastline of Florida, tall towers are silhouetted against a peach and yellow sky. These mighty metal giants support rockets bound for the vastness of space — except for one, that is.

Standing in the midst of the space-age structures is a monolith born in another era of exploration: the Cape Canaveral Lighthouse.

Long before it had a name, Cape Canaveral was an important navigational landmark, appearing on charts since the early 1500s. Later maps show Spanish explorers, including Ponce de Leon, referred to the landmass by several different names. "Cabo de las Corrientes" - meaning "Cape of the Currents" - gives a hint of the dangers ships needed to avoid.

But it was "Cabo de Canaveral" - or "Cape of Canes" - that proved to have staying power. By any name, the Cape was the recognizable point at which the ships bound for Europe made their eastward turn toward home. Those dangerous currents experienced by the Spanish explorers continued to plague sailors for the next several centuries, leading to a number of shipwrecks off the coast.

In 1848, the first lighthouse was built near the tip of the Cape. Unfortunately, this structure was only about 60 feet high with a rather dim light powered by whale oil. Mariners complained that by the time they were able to see the beacon, their ships were already dangerously close to the shoals they were trying to avoid.

So, in 1859, work began nearby on a new, taller iron structure. But history intervened, halting progress as the Civil War raged. Even the light from the

smaller lighthouse was ordered extinguished by the Confederate forces.

To comply, the lighthouse keeper dismantled and buried the lanterns in his orange grove until after the war ended. Finally, the new lighthouse was completed in 1868.

The structure, with a brick lining inside its iron exterior, was painted with its daymark black and white horizontal bands in 1873 to make it easier to identify during the day as a navigation point. The first three floors, which were laid out as living quarters, were only accessible by an outside stairway that wound up to the third level. That way, should the sea encroach, the lighthouse could withstand the water without flooding.

But it was, in fact, the impending encroachment of the sea that spawned an 18-month relocation project. Between 1892 and 1894, the lighthouse was dismantled and moved - by mule



THIS EARLY map from the 1600s shows the Cape as an important landmark for Spanish explorers. Dangerous offshore currents caused shipwrecks in the centuries before a lighthouse was constructed on the Cape.

power along specially constructed tracks - to its new home about a mile and a half further inland.

When the reconstruction was complete, it was relit in the location where it still stands today. The keeper's house and other structures, including the oil house which still stands today, were built on the surrounding grounds.

The Light and Those Who Kept It

One man, Captain Mills Burnham, and his extended family defined the role of lighthouse keeper at the Cape Canaveral Lighthouse. He tended the light for 33 years and is buried in the family cemetery on the Cape.

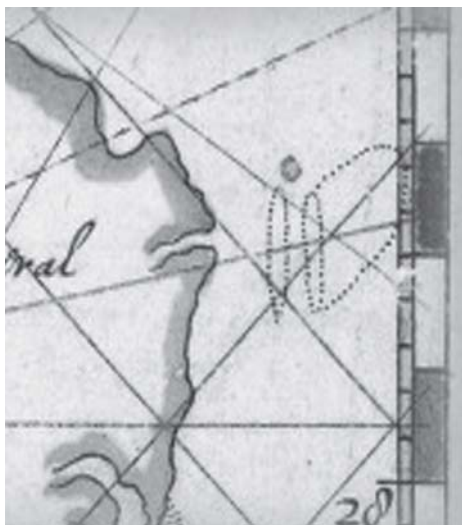
Several sons-in-law carried on after his death. In Burnham's time, life in the settlement at the foot of the lighthouse was a strange mix of pioneering isolation in a social center. While difficult to reach from the mainland - requiring both boat and overland transportation - for awhile, the Burnham home had the only piano around and area residents would make the difficult journey to attend the Lighthouse Ball.

The light that Burnham kept was the jewel in the new



THIS UNDATED historic photo shows the settlement at the lighthouse, including the houses for the keeper and his assistant, and other service buildings. The only building that survives today at the base of the lighthouse is the recently restored oil house where the kerosene for the light was stored.

s a beacon to coast's colorful history



shows the Cape as an important navigation point used by more currents caused numerous shipwrecks off the coast was constructed on the Cape.

lighthouse's crown. Its new, more powerful beam was state-of-the-art for lighthouses of the time. This 2,000-pound, 12-foot tall gem produced a light that could be seen up to 22 nautical miles.

The beehive-shaped, rotating lens system surrounded the light with a glistening array of glass prisms and bull's-eye lenses. The technology, developed in France by Augustin Fresnel, took the otherwise weak light source and magnified it to reach far out to sea. Though over the years the light source changed, the Fresnel lens sat atop the Canaveral Light for more than 100 years, until it was replaced by a modern optic in 1993. Now fully restored, Canaveral's first-order Fresnel lens is on display at the museum of the Ponce de Leon Inlet Lighthouse, about 35 miles north of the Cape.

As time moved on, first the whale oil and then the kerosene that powered the light was replaced by generator-powered electric. Commercial electric power reached the Cape in the 1950s - an era that also saw automation replace the traditional lighthouse keeper.

New Neighbors

The 1950s brought other changes to the Cape, as well. The lonely, isolated lighthouse suddenly had new neighbors —

noisy ones that shook the ground with fiery blasts that sent rockets toward the heavens.

The Space Age had dawned on Cape Canaveral. In fact, it is said that rocketry pioneer Dr. Wernher von Braun actually monitored the early launches from a walkway at the top of the lighthouse. Seaside launch pads sprung up all along the shore of the Cape as early experimental rockets gave way to manned missions to the moon.

Throughout the 150-year history of the Cape Canaveral Lighthouse, its ownership has been passed like an enduring torch for seafaring men.

In 2000, the Coast Guard transferred ownership of the lighthouse structure and its grounds to the U.S. Air Force, which is now responsible for maintaining it. The Coast Guard continues to maintain the beacon as an active navigational aid.

To further advance the preservation and restoration

efforts, the Cape Canaveral Lighthouse Foundation, Inc. was formed in 2002. The foundation and the U.S. Air Force, which owns the lighthouse structure and its grounds, are committed to a close partnership to preserve history and ensure the Cape Canaveral Lighthouse continues to shine well into the future.

The only remaining building on the lighthouse grounds, the oil house recently was restored by the Air Force, and the lighthouse itself soon will receive a new coat of paint to repair what time, rust and the hurricanes of 2004 have wrought. Once all repairs are complete, badged employees may visit the lighthouse from 10 a.m. to 2 p.m. on Tuesday through Thursday.

So as rockets continue to soar from the Cape, and new explorers prepare to leave from this point of land headed for the moon and beyond, each night a strong beacon of light still shines across the waters from the Cape Canaveral Lighthouse.



THE FRESNEL lens from the lighthouse is on display at the Ponce de Leon Inlet Light Station.



Center leadership salutes success of disabled work force

By Jennifer Wolfinger
Staff Writer

Kennedy Space Center Director Jim Kennedy expressed his respect and pride in the center's Disability Awareness and Action Working Group (DAAWG) during the 2005 National Disability Employment Awareness Month Breakfast Oct. 14 at the Debus Center.

He said the "awareness and action" element of the group inspires many people.

"Taking action - that makes us special," Kennedy said.

Cape Canaveral Spaceport Management Office Executive Director Susan Kroskey welcomed employees and guests, and shared the group's inspiration.

"At KSC, we're about 'Disabilities...Look at the Possibilities,'" said Kroskey, DAAWG's executive advisor.

A trio of DAAWG sign-language performers accompanied Ivette Rivera of Center Operations in singing the national anthem.

Kennedy shared that his



TIM PICCIRILLO, guest speaker at the National Disability Employment Awareness Month Breakfast, receives a token of appreciation from breakfast team chairperson Annie Williams.

grandfather was blind and taught him that having a disability doesn't have to affect success. Kennedy pointed out that based on a 2000 census, 20 percent of people have a disability, which would be equivalent to about two people per table at the event.

Guest speaker Tim Piccirillo energized everyone with jokes

and magic tricks before sharing his motivational story. Piccirillo has Tourette's Syndrome and lived with severe symptoms such as involuntary body movements and self abuse. With the support of family, teachers and medication, he learned to cope with the syndrome, become a comedy magician, graduated from

college and began serving as executive director of a center for independent living.

"It's not what happens to me in life, it's what I do about it. Success in life isn't in the physical body," he said. "My seven steps to success are setting a goal, expecting to get it, committing, action, assess what's working, change what's not, and if it's still not working, changing again."

Breakfast team chairperson Annie Williams presented Piccirillo with an STS-114 launch photo and plaque. Bill Sample, Space Gateway Support president, gave a \$10,000 check to the Foundation Fighting Blindness.

Rosalyn McKinney, Office of Diversity and Equal Opportunity assistant manager, thanked DAAWG members for their consistent, proactive approach to disabilities.

The event ended with door prize drawings, and Kroskey acknowledged committee members and upcoming events, including a KSC Diversity Event Celebration on Oct. 29 at the Holiday Inn Express in Cocoa.

Intern student Shevtsov relishes summer work

By Linda Herridge
Staff Writer

Though intern student Jane Shevtsov is wheelchair-bound, she knew no boundaries while working at the Space Life Sciences Lab. The University of California-Los Angeles student spent nearly three months at Kennedy Space Center working on experiments that could contribute significantly to long-term space travel and the vision for space exploration.

Shevtsov views her time at the SLS Lab as a once-in-a-lifetime opportunity. "It's been an amazing experience to be here," she said before returning to California. "I've enjoyed meeting new people and working with all the great lab equipment in the facility."

The 22-year-old performed research on fungi/molds and bacteria during plant experiments. Bacteria experiments included measuring how well bacterial communities perform in breaking down detergents.

An offshoot of the experiment involved using different kinds of bacterial samples and diluting them at different strengths to see what kinds of foods they eat at different dilutions. The goal was determining how specialized the bacteria become as they evolve.

"Jane's energy was contagious," said Dr. Jay Garland, Dynamac chief scientist. "Her internship produced enough interesting questions to keep us all engaged for some time to come."

At an early age, Shevtsov knew she wanted to be involved in space exploration in some

way. "What could be more fun than learning about living things?" Shevtsov commented.

While working to earn her Bachelor of Science degree in ecology behavior and evolution, with a minor in geography, Shevtsov also found time to help develop the Web site www.worldbeyondborders.org. The site promotes world citizenship, human unity and global government.

Shevtsov is also a science journalist for the Journal of Young Investigators Web site, jyi.org. Her first published



JANE SHEVTSOV, a summer intern from the University of California-Los Angeles, contributed to research at the Space Life Sciences Lab.

feature was an article about NASA's return to flight mission.

After graduating, Shevtsov plans to pursue a master's degree in ecology. "I'd like to help humans get to Mars," Shevtsov said. "It can't be accomplished without life support. Plants don't fail; only their support systems do."

Remembering Our Heritage

GEOS-1 was Cape's first launch for Unmanned Launch Operations in 1965

By Kay Grinter
Reference Librarian

What is there to do on a rainy Saturday on the Space Coast? Why, launch something, of course!

Forty years ago, Explorer 29 blasted off from Cape Kennedy carrying a 385-pound satellite built by the Applied Physics Laboratory, the first in a series of Geodetic Explorer Satellites (GEOS-1).

John Neilon, deputy director for the Unmanned Launch Operations directorate at the time, recalls, "We were coming off a launch failure on Delta 33, and the next launch after a failure is always tough. Delta 34 was also the first launch from the Cape by Kennedy Space Center's new ULO directorate, formerly Goddard Launch Operations. The launch preps had a few delays, and we had to rerun both the F-3 and F-1 day checks before the actual launch on Nov. 6.

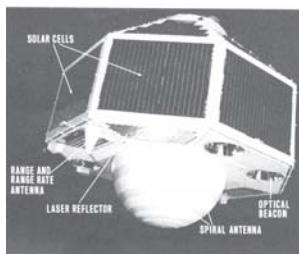
"At T-6 minutes in the countdown, Range Safety declared a 'no-go' because the weather had deteriorated to

about zero visibility. They finally relented as the weather improved, and we launched with only 22 minutes left in the nominal one-hour window. Even then, it was not exactly picnic weather."

The launch was the first for Douglas Aircraft's Thrust-Augmented Improved Delta, made up of a Thor first stage with three strap-on solid boosters, a new "fat tank" second stage to provide a longer engine burning time, and a solid-propellant third stage.

Dedicated to the mathematical determination of Earth's size, shape, and gravitational and magnetic fields, GEOS-1 had five geodetic instrumentation systems, including flashing xenon lights, to provide simultaneous measurements needed by scientists to more precisely model Earth's gravitational field. These measurements would also map a world coordinate system relating points on or near the surface to the common center of mass.

"But launch was only the beginning of the nail-biting," Neilon says. "During powered

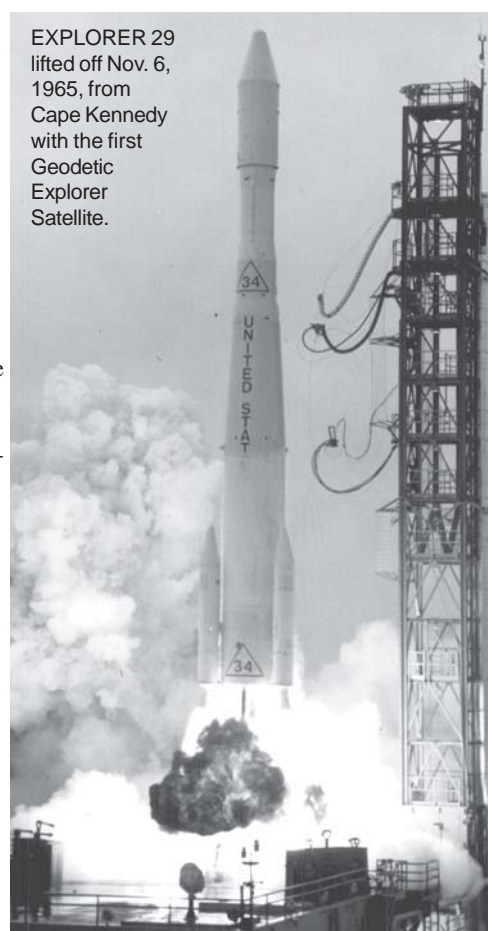


THE 385-pound Geodetic Explorer Satellite-1.

flight, the ground-based Bell Telephone Laboratory guidance system lost lock with its airborne transponder. We feared that Range Safety would have to take some action - either destruct or cutoff with disabling of the third-stage ignition sequence and failure of the mission. However, the less accurate autopilot on board took over and kept the vehicle within safe geographical limits."

On orbit, the initial boom deployment resulted in the spacecraft facing away from, rather than toward, Earth. Fortunately, once the boom was retracted and re-

EXPLORER 29 lifted off Nov. 6, 1965, from Cape Kennedy with the first Geodetic Explorer Satellite.



extended, the spacecraft was oriented properly, and the mission was a success.

Who were the good samaritans in South Dakota?



IF YOU participated in engineering a repair for this South Dakota traveler, please identify yourself to Beth Smith at 867-3333. She has a nice thank-you note to pass on.

3-D . . .

(Continued from Page 1)

and measures the portion of the pulses scattered back to the instrument.

CloudSat's cloud-profiling radar is more than 1,000 times more sensitive than typical weather radar. It can detect clouds and distinguish between cloud particles and

precipitation. The new information from CloudSat will answer basic questions about how rain and snow are produced by clouds, how rain and snow are distributed worldwide and how clouds affect the Earth's climate.

CALIPSO's polarization lidar instrument can detect aerosol particles and can distinguish between aerosol and cloud particles. With the high-resolution observation that CALIPSO will provide, scientists will get a better understanding of aerosol transport and how our climate system works.

The satellites will fly in formation just 15 seconds apart as members of NASA's "A-Train" constellation with three other Earth Observing System satellites. The A-Train includes NASA's Aqua and Aura satellites

and France's Polarization and Anisotropy of Reflectances for Atmospheric Sciences, coupled with observations from a Lidar satellite.

The usefulness of data from CloudSat, CALIPSO and the other A-Train satellites will be much greater when combined. The collective set of measurements will provide new insight into the global distribution and evolution of clouds that will lead to improvements in weather forecasting and climate prediction.

The Launch Services Program at Kennedy Space Center is responsible for government engineering oversight of the spacecraft, launch vehicle integration and launch day countdown management.

Space Congress, spaceport symposium evolve into Florida Space 2005



"Launching New Opportunities"

November 15-17, 2005

Florida Space 2005 is set for Nov. 15-17 at the Kennedy Space Center Visitor Complex, marking a fresh start in serving Florida's diverse space community that includes civil, commercial, national security and education sectors.

This new conference will build on the best features of Space Congress and the Cape Canaveral Spaceport Symposium, both longtime community space events now retired. The heritage

of those two events will be honored at this inaugural conference conducted by the Space Foundation.

Space professionals from throughout the region and with interests in Florida will learn about current business opportunities, discuss relevant space policy and network with top experts from NASA's Kennedy Space Center, the U.S. Air Force's 45th Space Wing and the

Florida Space Authority.

Topics will include new work resulting from the nation's vision for space exploration, assured access to space for national security operations, overcoming challenges facing the commercial space sector in Florida, and understanding the importance of partnerships in working on the

Eastern Range.

Activities over two and a half days will include enlightening program sessions, multiple networking opportunities at receptions and luncheons, a concluding gala dinner and more.

Visit www.floridaspace.org/information/index.cfm for updated information.

Combined Federal Campaign exceeds goal early in effort

The NASA work force is known for giving more than 100 percent when facing challenges, and that's just what civil servants did this year

to once again exceed the goal for the Combined Federal Campaign.

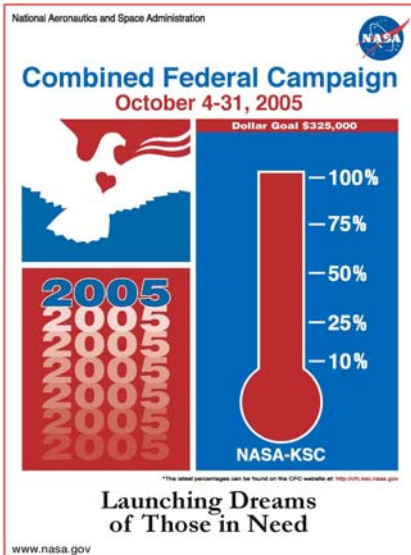
At press time, workers had reached out to those in need with a total of more than \$370,000 in

donations. This represents 114 percent of the \$325,000 goal.

Sixty-nine percent of the civil service work force generously contributed.

Contributions included a total of nearly \$140,000 designated for local charities, and more than \$16,700 for the NASA Family Assistance Fund, according to Ed Markowski of the KSC Combined Federal Campaign Publicity Committee.

The campaign is targeted to run through the end of the month.



STS-114 Crew Return Celebration at Visitor Complex free for spaceport employees

Remember the thrill of watching the STS-114 crew members walk off the Space Shuttle Discovery following the conclusion of its historic mission? Celebrate that joyful moment from 6 to 9 p.m. Nov. 1 at the Kennedy Space Center Visitor Complex for the STS-114 Crew Return Celebration.

Participants can meet crew members, view the IMAX 3-D movie "Magnificent Desolation: Walking on the Moon 3-D" and listen to musical entertainment at this festive event. Tickets are free to KSC and Cape Canaveral Air Force Station employees and \$5 per family member, and must be purchased in advance from any NASA Exchange Store. The ticket covers admission to the Visitor Complex, food and a drink.

Celebrating the one billionth gallon of alternative fuel



SPECIAL EVENTS

project manager Jim Thornton of Space Gateway Support, second from right, receives a T-shirt from Space Coast Clean Cities Coordinator Bill Young, right, honoring the "Beyond a Billion" celebration of the nation's billionth displaced gallon of petroleum. Thornton filled his GSA Tahoe, a Flex Fuel Vehicle, with Ethanol E-85 at the KSC Citgo Ethanol E-85 station and found himself being honored for pumping the billionth gallon of alternative fuel. In the background is NASA alternative fuels manager Bruce Chesson; at left is NASA propellants engineer Christine Howard-Du Quesne, who runs her Ford Ranger on E-85.



John F. Kennedy Space Center

Spaceport News

Spaceport News is an official publication of the Kennedy Space Center and is published on alternate Fridays by External Relations in the interest of KSC civil service and contractor employees.

Contributions are welcome and should be submitted two weeks before publication to the Media Services Branch, IDI-011. E-mail submissions can be sent to Jeffery.Stuckey-1@ksc.nasa.gov.

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Editorial support provided by InDyne, Inc. Writers Group.
NASA at KSC is located on the Internet at <http://www.nasa.gov/centers/kennedy>
USGPO: 733-049/60093