



# Spaceport News

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John F. Kennedy Space Center

## Mission update

### ELV manifest for 2000 (all dates tentative)

- Mission:** HETE-2
- Vehicle:** Pegasus Hybrid
- Launch site:** Kwajalein Atoll
- Date:** Jan. 28
- \_\_\_\_\_
- IMAGE (Delta II)  
Vandenberg AFB,  
Feb. 15
- \_\_\_\_\_
- EO-1/SAC-C (Delta)  
VAFB, April 13
- \_\_\_\_\_
- GOES-L (Atlas IIA)  
Cape Canaveral Air  
Station, Complex 36,  
May 3
- \_\_\_\_\_
- NOAA-L (Titan II)  
VAFB, May 9
- \_\_\_\_\_
- TDRS-H (Atlas IIA)  
CCAS, Complex 36,  
June 29
- \_\_\_\_\_
- HESSI (Pegasus XL)  
CCAS, July 1
- \_\_\_\_\_
- QuikTOMS (Taurus)  
VAFB, Aug. 15
- \_\_\_\_\_
- VCL (Athena I)  
Kodiak Island, Alaska,  
Sept. 15
- \_\_\_\_\_
- ProSeds (Delta II)  
CCAS, Complex 17,  
Sept. 21
- \_\_\_\_\_
- Jason/TIMED (Delta II)  
VAFB, Oct. 18
- \_\_\_\_\_
- MAP (Delta II)  
CCAS, Complex 17,  
Nov. 6
- \_\_\_\_\_
- EOS-PM (Delta II)  
VAFB, Dec. 21

## Transition leaders named

Kennedy Space Center director Roy Bridges opened the second phase of the KSC 2000 reorganization process on Jan. 10 when he announced the leaders of the plan's implementation teams.

"I wanted to let all of you know that we are ready to begin the next and most challenging phase of our KSC reorganization, that of implementing the model that I have presented to all of you, as well as to our other stakeholders," Bridges said in a CD Communication to employees.

The announcement set up two different sets of units based on the new organizational structure — four Change Management Teams (CMTs) and nine Organization Implementation Teams (OITs). Each team has been given guidance and assigned specific responsibilities for carrying out their individual charters.

A Cross Cutting Team led by Rick Arbuthnot has been given responsibility to oversee the implementation process. The team also includes Scott Cilento, Jenny

Lyons, Nancy Bray, Karin Biega and consultant Dean Walsh.

The four Change Management Teams are Business System, Communication, Move Planning and Workforce Planning. The nine Organization Implementation Teams are Shuttle/International Space Station Processing, Spaceport Engineering and Technology; Safety, Health and Independent Assessment; External Affairs; Spaceport Services; Workforce and

**(See KSC 2000, Page 4)**

## Child-care facility gets an A

When the staff of KSC's Child Development Center served up cake and ice cream on a recent morning, the facility was celebrating more than the advent of a new year. The party recognized a milestone with significance for many KSC employees who are also parents.

Billie Abner, administrator for the Child Development Center (CDC), learned in early January that the facility had achieved accreditation from the National Association for the Education of Young Children (NAEYC). Under government policy, all child care facilities at NASA centers must either have accreditation or be in the process of pursuing it.

"We're very excited. It's kind of like ISO 9001," Abner said in reference to the certification for quality management standards that KSC obtained in 1998. "We were supposed to hear something on



Child Development Center administrator Billie Abner, top right, shares time with youngsters at the facility. CDC employee Lillie Ann Mazion, right, helps a trio get into the swing of things.

Dec. 15, but our mail was lost. We were sitting here on pins and needles since October. I knew we had it, that it was a formality, but we needed that piece of paper."

Abner finally got the word by phone from the NAEYC on Jan. 3. The certification ended a long

**(See Children, Page 3)**



# Educational webcast series draws an expanding audience

Kennedy Space Center's "Landing to Launch" webcast series is really taking off.

The series, overseen by the University Programs Office, follows the processing of an orbiter from the landing of one mission to the launch of the next.

The format introduces educators and students to the people and facilities involved in the processing flow at KSC.

The webcasts are interactive, allowing viewers to ask questions of NASA and contractor experts.

The series has proved to be increasingly popular, with viewership rising from 1,000 per broadcast to more than 20,000. At the time of the Orbiter Processing Facility presentation, the series was ranked by the Department of Education as the second-most-watched Learning

Technology Project series.

The series so far has included broadcasts about the Shuttle Landing Facility, the Vehicle Assembly Building and the Orbiter Processing Facility. Early broadcasts included speakers such as James Jennings, Deputy Director for Business Operations.

The remaining webcasts will take viewers to the Launch Control Center, Crawlerway and Launch Pads.

The series is produced in partnership with the Learning Technologies Channel, United Space Alliance and Space Team Online.

To find out more on how to participate, please contact Gregg Buckingham of the University Programs Office by e-mail or visit the following web site:

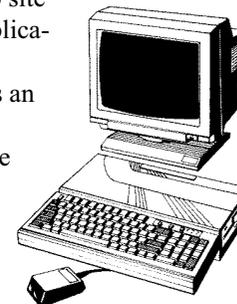
<http://quest.arc.nasa.gov/ltc/schedule.html>

## Spaceport News is online and in color

Issues of *Spaceport News* dating back to 1996 can be found on the World Wide Web at:

<http://www-pao.ksc.nasa.gov/kscpao/snews/snewstoc.htm>

Color versions of *Spaceport News* are posted to the web site at the time of publication. This online availability offers an opportunity for KSC to reduce the number of paper copies that are distributed. If your department would like to adjust the quantity received, please call the KSC mailroom at 867-2414.



## Mission accomplished



The crew of STS-103 poses in front of the orbiter Discovery following its return to Earth on Dec. 27 at 7:00:47 p.m. at the Shuttle Landing Facility. Standing left to right are Commander Curtis L. Brown Jr., Mission Specialist Claude Nicollier of Switzerland, Pilot Scott J. Kelly, and Mission Specialists Jean-Francois Clervoy of France, C. Michael Foale, John M. Grunsfeld and Steven L. Smith. The crew spent eight days — including Christmas — in space to bring the Hubble Space Telescope back into operation. During the mission, Discovery's four space-walking astronauts, Smith, Foale, Grunsfeld and Nicollier, spent 24 hours and 33 minutes upgrading and refurbishing Hubble, making it more capable than ever to renew its observations of the universe. Mission objectives included replacing gyroscopes and an old computer, installing another solid state recorder, and replacing damaged insulation in the telescope. The flawless landing on Runway 33 marked the 20th consecutive Shuttle landing at KSC.

## Marrow drive kickoff unites donor, recipient

KSC is hosting the third annual Marrow Registration Drive on Feb. 15-18. To kick off the event, KSC's first marrow donor, Ed Markowski, will be meeting the recipient of his marrow for the first time on Jan. 28.

Markowski registered to become a potential donor during KSC's second marrow registration drive in 1997. Eight months later, he received a letter from the American Red Cross advising him that he was a potential match for a 41-year-old man with chronic myelogenous leukemia.

In January 1999, Markowski donated his marrow. For the last year, Markowski and his recipient have been communicating via letters exchanged through the American Red Cross.

National Marrow Donor Program (NMDP) regulations prevented Markowski and the recipient from exchanging their names or locations for one year after the donation process.

"Meeting my recipient on the center stage of the Training Auditorium where I first registered to become a donor is a happy ending to this wonderful opportunity of saving someone's life," Markowski said.

For many diseases, such as leukemia and lymphoma, the only real hope for recovery or cure is through a marrow transplant from a donor in the NMDP. NASA and contractors are teaming together in an effort to educate and recruit as many volunteers as possible to become potential marrow donors. For further information, contact the KSC project leads, Dr. John Cinco and Jennifer Murray, at 867-6673.

The kickoff ceremony will take place Jan. 28 at 9 a.m. in the NASA Training Auditorium. All are welcome while seating is available.

# Walker retires after 32 years at KSC

Sterling Walker, director of the Engineering Development Directorate, ended 32 years of service to Kennedy Space Center with his retirement on Dec. 31, 1999.

"He's been one of the fairest managers I know for all the people he had working for him," said Roger Hall, deputy associate director for Systems Development. "He receives a lot of respect from the people, and it just seems to come naturally."

Walker joined KSC in 1967 after three years as a nuclear power engineer with the Navy Nuclear Program at Charleston Naval Shipyard in Charleston, S.C. He was assigned as the Liquid Oxygen (LO2) Systems Engineer for the Saturn IB at Launch Complex 34-37 and later assumed similar responsibilities for the LO2 and Liquid Hydrogen (LH2) systems at Launch Complex 39 for the Apollo Program.

He led the successful design modifications of the LO2 system when LC 39 was altered to launch the smaller Saturn 1B following the retirement of the Saturn V spacecraft.

Walker held several managerial positions in the Engineering Development Directorate and also served as Chairman of the Canister Rotation Facility (CRF) Source Evaluation Panel.

He became director of Engineering Development in February 1997. In that position, he was responsible for the design of unique launch and landing facilities and equipment and the operation of the Center's Spaceport Technology Development laboratories. He also headed development project management and technology commercialization and served as the KSC Chief Engineer.

Walker also was well known for his voluntary functions. He served

on the Industry Advisory Committee for the Dean of Engineering at the University of Central Florida and was a member of the organizing committee for the Aerospace Mechanisms Symposium. And Hall noted that Walker's greatest legacy might come from his role as chairman of KSC's Disabilities Action and Awareness Working Group (DAAWG).

Walker's retirement gives him more time to pursue his longtime hobby of sailing. Hall said that Walker has made numerous trips throughout the Caribbean on his boat with his wife, Pat.

Retirement also will allow Walker a chance to devote more attention to another passion, Clemson University football. He graduated from Clemson in 1964 with a bachelor of science degree in mechanical engineering.

Walker has received numerous NASA and KSC awards, including



Sterling Walker

the NASA Exceptional Service Award in 1989.

"He's got a lot of engineering skills but at the same time knows how to communicate with people," said Frank Howard, who worked with Walker both at the Charleston Naval Shipyard and in KSC's Engineering Development Directorate. "He's a hands-on kind of person, both technically and managerially. He's always had a tremendous amount of patience and integrity."

## Children ...

(Continued from Page 1)

process that included intense scrutiny of the center's practices, teaching methods, facilities and equipment.

As part of the procedure, the NAEYC sent two evaluators to the center to measure its performance in 13 areas of competency. All of the information was independently reviewed by a panel at the NAEYC headquarters in Washington, D.C.

The NAEYC, which began its accreditation program in 1985, describes itself as the nation's oldest and largest organization of early childhood professionals. Only 6,648 early childhood programs nationwide — 7 percent — have achieved NAEYC accreditation.

"The heart of NAEYC accreditation focuses on the child's experience," said NAEYC spokesperson Barbara Willer. "The greatest emphasis is on the children's relationships with the staff and how the program helps each child grow and learn intellectually, physically, socially and emotionally."

KSC's facility, with a staff of about 35 employees, accommo-

dates approximately 140 children ranging in age from six weeks to kindergarten. All of the children have at least one parent who is a KSC employee. The center is open from 6 a.m. to 6 p.m.

The center opened in 1990 under contractor management and moved under the aegis of the NASA Exchange in 1996. Abner joined the facility in August of 1998 with the primary goal of leading the accreditation process, something she had participated in at other NASA centers.

As with ISO 9001, the accreditation requires continuing efforts by the CDC. The facility must make yearly reports to the governmental agency and must renew its accreditation every three years.

In addition to the formal payoff, Abner said the pursuit of accreditation yielded more immediate results.

"The parents and our staff really grew together through this process," she said. "We couldn't have done this without the parents."

The Child Development Center will receive a symbolic torch for display as a sign of the NAEYC accreditation.

## KSC mourns death of Evelyn Johnson

Evelyn Johnson, deputy director of KSC's Equal Employment Opportunity Program Office, died on Dec. 26, 1999, after a long illness. She was 55.

Ms. Johnson, a Titusville resident, worked 35 years for the federal government, including 28 years for NASA. As the second-ranking official in the Equal Employment Opportunity (EEO) Program Office, she oversaw a wide variety of programs. The coordination of KSC programs with historically black colleges and with disabled people were among her specialties.

Ms. Johnson spent a year at Stennis Space Center in Mississippi as acting director of the EEO office before returning to KSC last fall. Her illness eventually forced her to leave work.

Services for Ms. Johnson were held on Dec. 31 at St. James A.M.E. Church in Titusville. James Jennings, KSC's deputy director for



Evelyn Johnson

business operations, spoke at the service. A representative from NASA Headquarters also attended.

"She was a very caring person," said Kenny Aguilar, EEO Program Office director. "She obviously will be missed by the center for her fine work with the community."

Ms. Johnson, a Gainesville native, is survived by a daughter, Theresa Elaine Johnson of Tallahassee, two brothers and two sisters.

# Student artists help mark 50th anniversary

They weren't born until long after the first missile was launched from Cape Canaveral, but a group of local high school students will be honored for their part in the celebration of that milestone.

The winners of a recent youth art contest to commemorate the 50th anniversary of the Bumper launch will be honored in a dedication ceremony on Jan. 22. The event will take place at Space View Park in Titusville beginning at 10:30 a.m.

As part of the year-long celebration of the historic occasion, the

50th Anniversary Committee sponsored a commemorative plaque drawing contest, which was open to all seventh- through 12th-grade students in Brevard County. The winning design will be used to develop a two-foot-by-two-foot granite plaque to be placed at the U.S. Space Walk of Fame at Space View Park, on the shore of



the Indian River.

The contest ran from Aug. 24 through Oct. 31 last year. A selection committee, consisting of state senator Patsy Kurth, *Florida Today* columnist Milt Salamon, 45th Space Wing representative Carmen Beecher, KSC representative Steve Dutczak of Public Affairs and Space Gateway Support representative Chuck Debelius.

The original plan had been to award only first- through third-place prizes, but the judges were so impressed with the submissions that they added two honorable

mentions.

The awards donated by SGS were savings bonds of \$1,000 for first place, \$500 for second place and \$250 for third place.

Jiae Hwang of Satellite High School supplied the winning drawing. The following students also were honored: Kalolaine Pahulu, Bayside High School (second place), Jeremy Petrie, Palm Bay High School (third place), and Ryan McNeill of Melbourne High School and James Martin of Satellite High School (honorable mention).

## Far from home



Relatives of former South African president Nelson Mandela pose before the orbiter Endeavour at Launch Pad 39A during a tour of Kennedy Space Center on Jan. 4. In the center rear is Nelson Mandela, the oldest grandson of the civil rights leader.

## KSC 2000...

*(Continued from Page 1)*

Diversity Management; Expendable Launch Vehicle and Payload Carriers; Councils/Boards and Executive Staff; and Business Services.

Bridges emphasized that the teams' charters are not yet considered final. One of the first tasks each team will face is to refine its charter, and the center director encourages feedback from employees during the process.

The charters can be found from the KSC 2000 Web site, reached through the KSC internal home page. Comments, questions or

concerns can be sent to KSC 2000 web from the global e-mail list or to [KSC2000@ksc.nasa.gov](mailto:KSC2000@ksc.nasa.gov) from outside the center.

Bridges said that other means for communicating directly with the individual OIT and CMT leads will be made available soon.

Bridges stressed that the primary focus of the Communication CMT is to ensure that the plans and progress of KSC2000 activities are timely and accurately communicated to KSC Civil Servants and other affected stakeholders.

The CD Communication can be found on the KSC 2000 Web site: <http://www-pao.ksc.nasa.gov/kscpao/ksc2000/>

### Change and Management Teams

- Business System: Susan Kroskey, lead; Rob Ellison, deputy
- Communication: Barbara Brown, led; Lisa Malone, deputy
- Move Planning: Marv Jones, lead; Bill Holden, deputy
- Workforce Planning: Pat Simpkins, lead; Louise Boyd, deputy

### Organization Implementation Teams

- Shuttle/ISS Processing: Tip Talone, lead; deputy TBD
- Spaceport Engineering and Technology: Loren Shriver, lead; Ken Payne, deputy
- Safety, Health and Independent Assessment: Shannon Bartell, lead; Steve Robling, deputy
- External Affairs: JoAnn Morgan, lead; Joe Gordon, deputy
- Spaceport Services: Chris Fairey, led; Dr. Irene Long, deputy
- Workforce and Diversity Management: Ken Aguilar, lead; Miguel Rodriguez, deputy
- ELV and Payload Carriers: Bobby Bruckner, lead; Bob Heuser, deputy
- Councils/Boards and Executive Staff: Jim Jennings, lead; Doug Hendricksen, deputy
- Business Services: Jim Hattaway, Nap Carroll and Bruce Anderson, leads

# Visual aid a welcome sight for KSC engineer

Paul Mogan sat at his desk in the Headquarters Building, wearing what appeared to be a set of virtual reality goggles.

But Mogan certainly wasn't playing games on company time. The odd-looking headgear did not generate fantasy images but instead gave the KSC employee a better grasp of visual reality.

The device, called Jordy and manufactured by Enhanced Vision Systems of Orange County, Calif., represents the latest technology in visual aids. In a twist on the usual pattern of NASA spinoffs that benefit the medical professions, the medical device is expected to make Mogan a more effective contributor to NASA.

Mogan is the first person in Florida outside of a small trial group to use the Jordy device. Dr. Scott Hearing of the Stuart Eye Institute delivered the product to Mogan at his office on Jan. 7 and instructed him in its use.

Jordy is essentially a small video camera with the image split into two parts. A small control box gives Mogan the ability to zoom in or change to high-contrast or reverse-image modes.

"I thought it was terrific when I went down to get evaluated," Mogan said. "I thought it was the best visual aid I've ever used. Now that I have it hooked up to my own monitor in the office, I'm pretty excited."

Mogan has been legally blind during the 12 years he has worked as an electrical engineer in KSC's Engineering Development Directorate. He suffers from a rare form of macular degeneration that causes people to begin losing vision as children — in Mogan's case, around the age of three.

He estimates his vision level at about 5 percent of what most people have.

Mogan is unable to drive a car, and his sight limitation also affects his ability to work. Unaided, he can't read text in a book or on a computer screen.

"I can't read anything at all, really, except maybe the biggest headlines in a newspaper," he said.

When Mogan began working at



Paul Mogan, a KSC engineer who suffers from a form of macular degeneration, becomes familiar with his new visual aid under the supervision of Dr. Scott Hearing of the Stuart Eye Institute.

KSC, NASA supplied him with a magnifying device that was technologically advanced for the time. It worked like a closed-circuit television, with a downward-facing camera that sent magnified images onto a screen for Mogan to view.

He also uses special software that enlarges the images or words on a computer screen. And he augments these modern aids with hand-held magnifying glasses of the traditional kind.

All of those devices have their limitations. The camera on the "TV" device has a fixed focus, making it impossible for Mogan to read writing on an irregular object — a pill bottle or a large book in which the page curves near the binding.

And so he remains alert for improvements in technology. That quest drew him to last October's annual Assistive/Accommodative Technology Fair, sponsored by the KSC Disability Awareness and

Action Working Group (DAAWG). Though none of the devices on display offered sufficient magnifications to be of use to him, Mogan met a vendor named George Hall with whom he kept in touch.

A short time later, Hall told Mogan that he had heard of a new visual aid that would be coming on the market soon and referred him to the only clinic in Florida that had the device. Mogan traveled to Hearing's office in Jupiter, Fla., for an eye exam and a trial use of the Jordy device.

The advantages were immediately clear to Mogan. Jordy gave him a magnification of 24 times the size of the actual image, and an automatic focus made it possible to read type on irregular surfaces. In contrast to other visual aids that use telescope-like optics, the device didn't drastically shrink the field of view.

And it is the first such aid that gives color images. Finally, at

under 10 ounces, the battery-operated unit was light enough to be worn on the head — although Mogan also can place it on a stand.

"Pretty much I can see 20/20 with these," Mogan said.

And that ability will make Mogan a more effective employee, which is why NASA agreed to cover the \$3,000 cost of the device.

The Jordy device is an advancement on a visual aid called LVES, which used technology developed by NASA. The "real-time" image processing used for analysis of remote sensing data, such as LANDSAT images, became the basis for the LVES device.

Hearing noted that his patient, as someone who works in a technical position, will be a particularly useful test subject for developers of future high-tech visual aids.

"The engineers out in California are anxious to talk to a real, live person who talks the same language as they do," Hearing said.

# KSC passes 2000 rollover test

Art Beller summed up his New Year's Eve as "pleasantly boring."

Beller, KSC's Year 2000 Project Manager, was one of about a dozen employees stationed in the Emergency Operation Center (EOC) for the rollover of the calendar. Prepared to respond to any problems that might develop because of the date change, the team found only a steady stream of status reports that produced no anomalies at all.

Not only did all of KSC's systems function properly, there were no incidents involving the security of the center's information technology.

The evening was so uneventful that the EOC was deactivated on the morning of Jan. 1, hours earlier than planned. The next significant test of the center's Y2K preparations occurred on Jan. 4, when the full work force returned. Beller said the only known Y2K-related effects were extremely minor and easily fixed — two instances of some reports printing dates incorrectly.

"There was no impact to any work," Beller said. "So we came through this very, very cleanly."

The story was the same throughout NASA.

**"There was no impact to any work. So we came through this very, very cleanly."**

**ART BELLER, Y2K PROJECT MANAGER**

The agency closed down its Y2K operations command at Goddard Space Flight Center four days ahead of schedule, with no significant problems reported. Some 150 NASA employees and contractors worked during the holiday period across the globe to monitor systems and repair glitches.

Beller gave credit for the smooth transition to the many members of the Year 2000 Working Group, which had toiled diligently to ensure that all KSC systems would accommodate the four-digit date rollover.

Though the main threat has passed, the Year 2000 team's charter runs through March 31. Beller said the Feb. 29 date presents another test, although he is confident no problems will arise.

## More hot links ...

As an occasional service to our readers, *Spaceport News* lists Internet links for NASA and space-related news and events.

• Astronaut biographies  
<http://www.jsc.nasa.gov/Bios/index.html>

• Payload specialist biographies  
<http://www.jsc.nasa.gov/Bios/PS/>

• Hubble Space Telescope  
<http://spacelink.msfc.nasa.gov/NASA.Projects/Space.Science/Origins/Hubble.Space.Telescope/index.html>

• Landsat satellite program  
<http://geo.arc.nasa.gov/sgelandsat/landsat.html>

• Robotics education  
<http://robotics.nasa.gov/index.html/>

• NASA space history  
<http://spaceflight.nasa.gov/history/index.html>

# Independent team begins analysis of Mars missions

Sixteen experienced engineers, scientists and executives have been named by NASA Administrator Daniel S. Goldin to form the Mars Program Independent Assessment Team.

The team held its initial organizational meeting on Jan. 7 at NASA Headquarters.

Chaired by Thomas Young, retired executive vice president of Lockheed Martin Corp., this team has been chartered to review the agency's approach to robotic exploration of Mars in the wake of the recent loss of the Mars Polar Lander mission.

The team's participants are:

- James Arnold, deputy director, Aerospace Directorate, NASA Ames Research Center, Moffett Field, Calif.
- Thomas Brackey, executive director for Technical Operations, Hughes Space and Communications Co., Los Angeles, Calif.
- Michael Carr, planetary geologist, U.S. Geological Survey, Menlo Park, Calif.
- Douglas Dwoyer, associate director for Research and Technology Competencies, NASA Langley

Research Center, Hampton, Va.

- Gen. Ronald Fogelman, U.S. Air Force (retired)
- Maj. Gen. Ralph Jacobsen, U.S. Air Force (retired) and president emeritus of the Charles Stark Draper Laboratory
- Herb Kottler, associate director, Massachusetts Institute of Technology (MIT) Lincoln Laboratory, Lexington, Mass.
- Peter Lyman, consultant, Pasadena, Calif.
- Joanne Maguire, vice president for Group Development, TRW Space & Technology Group, Redondo Beach, Calif.
- Robert Pattishall, director of Advanced Systems and Technology, National Reconnaissance Office, Chantilly, Va.
- Larry Soderblom, planetary scientist, U.S. Geological Survey, Flagstaff, Ariz.
- Peter Staudhammer, vice president for Science and Technology, TRW Inc., Cleveland, Ohio
- Kathy Thornton, assistant dean for Graduate Programs, University of Virginia, Charlottesville, and retired NASA astronaut
- Peter Wilhelm, director of the

Naval Center for Space Technology, Naval Research Laboratory, Washington, D.C.

- Brian Williams, assistant professor, MIT Space Systems Laboratory, Cambridge, Mass.
- Maria Zuber, professor of Geophysics and Planetary Sciences, MIT

The team will evaluate several recent successful and unsuccessful NASA missions to deep space and will analyze the budgets, content,

schedule, management structure and scientific organization of these missions.

It will then assess how these roles and responsibilities are related to mission safety, reliability and success.

It will also review proposed revisions to NASA's existing Mars exploration program architecture. The team is scheduled to present a briefing to the NASA administrator by mid-March 2000.



John F. Kennedy Space Center

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