



### **Columbia Memorial unveiled at Michoud**

**NASA's External Tank Program Manager Sandy Coleman, right, poses next to the new Columbia Memorial unveiled recently at the Michoud Assembly Facility in Louisiana. Chip Jones, left, Michoud resident manager, and Hersh Fernandes, who helped design the memorial as part of his Eagle Scout project, also were present. NASA and Lockheed Martin employees dedicated the 13-foot, stainless steel memorial on the second anniversary of the Columbia accident.**

## **NASA launches environmental monitoring system**

*By Rick Smith*

A state-of-the-art environmental monitoring facility in Panama is the first to employ an innovative NASA monitoring and visualization system -- one that could provide early warning to Central American scientists, policy makers and civilians about a variety of ecological and climatic changes.

Developed by researchers at NASA's Marshall Center, the monitoring system is known as SERVIR, Spanish for "to serve" and also the Spanish acronym for the Regional Visualization and Monitoring System for Mesoamerica. Featuring a massive, Web-based data archive of maps and satellite imagery, decision-support tools and interactive visualization capabilities, SERVIR is designed to aid environmental decision-makers, climatologists, policy makers, safety organizations and industry across Mesoamerica -- the seven countries of Central America and the southern Mexican states.

"NASA's science mission begins here on Earth, with greater awareness and understanding of our changing planet, and new solutions for protecting our environment, resources and human lives," said Dr. Ghassem Asrar, NASA's deputy associate administrator for science.

"The SERVIR technology, and our partnership with various organizations and with the people of Central America, reflects NASA's commitment to improving life on our home planet for all people," Asrar said.

The interactive, user-friendly system is designed to make NASA satellite maps and related data freely available and readily accessible to anyone with an Internet connection. Designed to track weather, climate and ecological events, the system currently monitors wildfires and "red tides" -- blooms of toxic algae that threaten local fishing areas. SERVIR also will monitor areas of deforestation and provide climate-change scenarios based on land-cover changes.

"SERVIR is an excellent tool for gauging slow or periodic shifts in climate that could lead to drought and other

## **Niagara Movement is theme for Black History Month**

*By Chanel Leslie*

This year's Team Redstone Black History Month events will commemorate the 100<sup>th</sup> Anniversary of the Niagara Movement. Team Redstone's month of activities culminate at 9:30 a.m. Thursday with a program at the Sparkman Center.

The Niagara Movement, named for its place of origin, was the first significant black organized protest movement of the 20<sup>th</sup> century. The organization, led by W.E.B. Du Bois, espoused a modern program of uncompromising protest and demand for change, and led the way for the formation of the National Association for the Advancement of Colored People.

*See Niagara on page 4*

*See SERVIR on page 3*

# NASA recognizes the contributions of black Americans

## A message from NASA

### Administrator Sean O'Keefe

NASA joins Black History Month celebrations during February, and I encourage all NASA employees to recognize the outstanding contributions of African-Americans to our national life and, specifically, to this agency.

Here at NASA, we are proud of our efforts to partner with historically black colleges and universities, the long heritage of African-Americans in our astronaut corps, and our ongoing efforts to make our workforce among the most diverse in the nation.

I especially want to honor the contributions of those African-American pioneers who have lost their lives in the cause of exploration and discovery. Major Robert Lawrence, who was slated to be an astronaut prior to losing his life in a training accident in 1967; Dr. Ronald McNair, the second African-American in space and a Mission Specialist on the last flight of the Challenger, and Lt. Colonel Michael Anderson, the Payload Commander of Columbia STS-107, left us with a gift of

inspiration that lives on today.

We also have much to celebrate. The 2005 Black Engineer of the Year Awards have been announced, and two NASA employees have been recognized. Congratulations to Dr. Isaiah M. Blankson, Senior Scientist/Technologist at Glenn Research Center, for his Career Achievement in Government Award, and Dr. John E. Foster, Aerospace Engineer and Principal Investigator at Glenn for his Special Recognition award. And once again, Deputy Administrator Frederick D. Gregory has been recognized as one of the 50 Most Important Blacks in Technology by U.S. Black Engineer & Information Technology magazine.

On February 16, astronaut Alvin Drew will address the NASA Headquarters employees at the annual Black History Month Observance. Prior to his presentation, he will share lunch here at Headquarters with students from Bowie Senior High School.

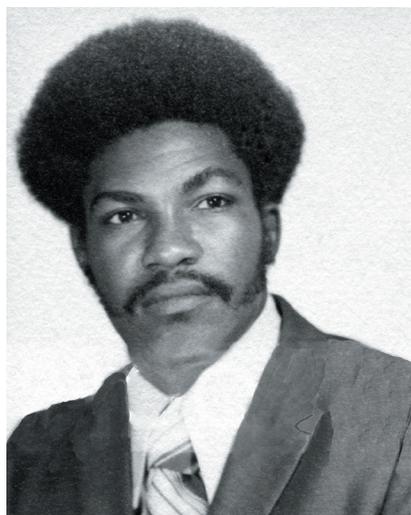
Alvin's generosity with his time and expertise is a wonderful example of a very tangible way in which NASA is spreading inspiration to young people of all backgrounds to pursue careers in math and science and lead the next generation of

explorers. I hope you will take advantage of the many Black History Month activities that are planned at the Centers as well.

We are all strengthened by our diversity, which is helping us to achieve great things. One of our 2004 astronaut candidates, Dr. Bobby Satcher, says, "There's some scientist in me. There's some explorer in me. There's a humanitarian in me also. Space is the one venue that has the highest potential for benefiting people if we continue to be serious about exploring it." Through events like Black History Month, we're celebrating the wonderful contributions that every member of the NASA Family brings to our common goal of advancing knowledge through exploration.

In that spirit, I hope you will take the opportunity this month to learn something new about the history and culture of African-Americans and their role in the bold history of our great agency.

I also encourage you to exemplify the spirit of NASA's commitment to diversity by participating in the Alvin Drew presentation and other activities at work and in your communities that celebrate our nation's rich diversity.



## Who am I?

*I was a college sophomore at the University of Mississippi in this 1971 photo. While there, I majored in electrical engineering after completing an associate program in electronics. Photos of me at this age are difficult to come by because not many people living near my family in Senatobia, Miss. took single photos. I had four sisters and three brothers. My eldest sister had trouble pronouncing "brother" when I was born, so she gave me the nickname "Bubber." Do you know "Who I Am?" Find out on page 4.*

Compiled by Michael McLean

## NASA Solid Rocket Motor test set

NASA's Space Shuttle program will test the first of two Flight Verification Motors -- a full-scale Solid Rocket Motor -- at ATK Thiokol Inc. in Promontory, Utah, on Thursday. The test is expected to provide a better understanding of mid-life rocket motors. Shuttle Solid Rocket Motors are certified for flight for five years. For more information, go to the Marshall Center Home Page at <http://www.nasa.gov/centers/marshall/home/index.html>.

# Marshall's One NASA Peer Award goes to ISP team

Marshall Center Associate Director Robin Henderson recently presented the center's first One NASA Peer Award to the In-Space Propulsion Technologies Projects (ISP) Team.

The award recognizes individuals and teams that demonstrate One NASA behaviors and promote the One NASA themes of decision-making for the common good, collaborating to leverage existing capabilities, and standardizing processes that demonstrate efficiencies.

"The In-Space Propulsion Technologies Projects Team is a sterling example of the 'One NASA' concept at work," said Dr. David Edwards, Marshall's One NASA representative. The team, led by Les Johnson, is responsible for consolidating the in-space propulsion knowledge and resources from within the Agency. Even though the team operates from Marshall, impartiality is ensured through implementing standardized methods and procedures that are in the best interest of NASA.

The ISP team was recognized for identifying a primary means of consolidating expertise within the Agency.

The members of the ISP team are Les Johnson, Randy Baggett, Judy Ballance, Karen Bishop-Behel, Joseph Bonometti, Stayce Harris, Greg Garbe, David Har-



Photo by Emmett Given/ Marshall Center

**The In-Space Propulsion Technologies Projects Team won the first Marshall Center One NASA Peer Award. Front row from left, David Harris, Joan Presson, Les Johnson, Randy Baggett, and Curtis Taylor. Back row from left, Melody Herrmann, Bonnie James, Rae Ann Meyer, Joe Bonometti, and Leslie Alexander.**

ris, Melody Herrmann, Wendy Hulgán, Bonnie James, Rae Ann Meyer, Edward (Sandy) Montgomery, Michelle Munk, Joan Presson, Erin Richardson, Kirk Sorensen, Karen Stephens, Ann Trausch, Leslie Alexander, Charles Adams, Gwen Artis, Bob Bechtel, Kathleen Cutting, Wilda Davis, Kyle Frame, Brand Griffin, Joan Hannan, Steve Moon, Tammie Sallo, Curtis Taylor, Marsha Walker, Gordon Woodcock, Donna Patterson, Trysh Motton, Fred Goff, Lee Jones, Sheri Bechtel, Mildred Zurburg, Scott Jones, Ricky Power, Carolyn Clifford, Janine Danne, Jill Cole, and John Smith.

The award, the first tier of the One

NASA peer award structure, is open to all active NASA and contract employees. Nominations may be submitted and awards presented throughout the year. The second tier award is presented once a year. Winners of the individual/team awards are reviewed and a center-level award is given. All center-level award winners' documentation is later sent to NASA Headquarters for evaluation by the Agency's One NASA team. An Agency "best of the best" award, the third tier of the One NASA Peer Award, is presented to one nominee from among center-level winners. To learn more about this new award and enter a nomination, go to [www.onenasa.nasa.gov](http://www.onenasa.nasa.gov)

## SERVIR

*Continued from page 1*

long-term problems, as well as identifying quick-forming weather phenomena that threaten human lives and operations on land and at sea," said Daniel Irwin, SERVIR project manager at the Marshall Center.

The Panamanian SERVIR Center opened in early February. NASA devised the system in partnership with the U.S. Agency for International Development. Other key partners include the World Bank; the City of Knowledge, Panama; the Central American Commission for Environment and Development; and Cable

& Wireless Panama. Scientific and technical collaborators include the University of Alabama in Huntsville; Oak Ridge National Laboratory in Oak Ridge, Tenn.; the University of Arkansas in Fayetteville, Ark.; and Science Systems and Applications Inc., in Lanham, Md.

"We're extremely proud of this joint effort," said Tom Sever, SERVIR principal investigator at Marshall. "Without the partnership of all these organizations, we never could have integrated the resources to create such a robust system -- combining space-based observation with an intimate knowledge of local ecosystems to enable constant, real-time monitoring

of this environmentally fragile but vital region."

SERVIR was developed at the National Space Science and Technology Center (NSSTC) in Huntsville. In an NSSTC laboratory identical to the new SERVIR center in Panama, developers spent much of 2004 refining their software and interactive tools, working in close contact with researchers in Panama and other Mesoamerican countries to benchmark map data and test online data distribution capabilities.

*The writer, an ASRI employee, supports the Public Affairs Office.*

# Niagara

*Continued from page 1*

This movement also challenged the then-dominant ideals of Booker T. Washington. At the turn of the century there were divisions in black political life. Some blacks, such as Booker T. Washington, believed in accommodation; others, such as Du Bois and William M. Trotter, were more militant.

After a closed-door meeting at Carnegie hall in 1904, the Committee of Twelve for the Advancement of the Interest of the Negro Race was launched. But it fell apart because of infighting. In February 1905, Du Bois and Trotter called together a group of blacks that included Frederick L. McGhee and C.E. Bentley. On July 11-14, 1905, 29 prominent blacks met secretly at Niagara Falls, Ontario, Canada and drew up a manifesto calling for full civil liberties for blacks, abolition of racial discrimination, and recognition of human brotherhood. They called the group the Niagara Movement. The name represented its place of origin and the “mighty current” of protest its founders hoped to unleash.

Du Bois was named general secretary and the group split into various committees. The founders agreed to divide the work among state chapters. At the end of the first year, the organization had only 170 members and was poorly funded. Nevertheless, it distributed pamphlets, lobbied against Jim Crow laws, and sent circulars and protest letters to President Theodore Roosevelt after the Brownsville Incident of 1906 in which 167 black infantrymen were unjustly discharged from the military following a shooting that left a white man dead.

Despite the establishment of 30 branches and the achievement of a few scattered civil-rights victories at the local level, the group suffered from organizational weakness and lack of funds. It never was able to attract mass support.

By 1910, Du Bois had turned his allegiance to the newly formed NAACP, which inherited many of its goals from the Niagara Movement.

*The writer is the Diversity and Equal Opportunity Specialist in the Marshall Center Office of Equal Opportunity.*



Photo by Emmett Given/ Marshall Center

## **A ‘FIRST’ look at area robotics teams**

**Several Huntsville-area high school engineering teams gave the media an early look Thursday at the robots the teams designed and built for “Triple Play,” a national robotics contest sponsored by the organization “FIRST” --- For Inspiration and Recognition of Science and Technology. The Marshall Center sponsors the student teams. Above, Cody Key, center, and other members of the Arab High School “Dragon Slayers” robotics team give their entry a final inspection.**



Photo by David Higginbotham, Marshall Center

## **Who am I?**

**Cedreck Davis, or “The Energy Czar,” as his co-workers sometimes refer to him, is the Marshall Center’s Energy Program Manager. Cedreck’s responsibilities include working to lower the Center’s utility bills (his team has saved Marshall millions), and trying to have a positive impact on the environment. Cedreck is also an ordained Church of Christ minister. He and his “famous” wife, Betty Davis, have one daughter, Tamarrah, who is a third-year medical student at the University of Alabama in Birmingham.**

# Announcements



Spencer

## ***Spencer is Shuttle Propulsion Employee for January***

Jeff Spencer of the Space Shuttle Main Engine Project Office

was named Shuttle Employee of the Month for January. He was recognized for his work on improvements to the Main Engine's Advanced Health Management System, designed to help flight safety and ground maintenance checkout of the engines through advanced monitoring and detection systems. Spencer was cited for his efforts to control costs and the schedules of Phases I and IIA of the system's implementation, as well as for developing and coordinating Phase IIB.

## ***Advanced Space Propulsion Workshop set for April 7-8***

The 16<sup>th</sup> Annual NASA Advanced Space Propulsion Workshop is set for April 7-8 at the University of Alabama in Huntsville Beville Center. This year's workshop will focus on technology readiness levels, relatively far-term space propulsion and power concepts and technologies that hold the promise of enabling ambitious robotic and human exploration missions for the 21<sup>st</sup> century. Register for the workshop at <http://www.uah.edu/research/PRC/ASPW>

## ***Charitable groups may apply now to be considered for CFC funds***

The Tennessee Valley Combined Federal Campaign is accepting applications from non-profit charitable human, health and welfare organizations that want to receive CFC contributions. The organizations must be a 501 c (3) organization. Applications will be accepted from March 14-April 14. For more information or to obtain an application, call Melinda Seigler at 536-0745, ext. 108, or download the application with instructions at: <http://cfc.redstone.army.mil>

## ***Chemical Engineers chapter to meet Thursday in Decatur***

The American Institute of Chemical Engineers will hold a dinner meeting at 6 p.m. Thursday at Mando's Italian Restaurant, 1416 6<sup>th</sup> Ave. S.W., in Decatur. Craig F. Moyer of Hershey Foods Corp. will give a lighthearted talk about the chemistry, physics and mechanics of manufacturing Hershey's Kisses. Call Janie Miernik at 544-6534 for reservations.

## ***AIAA, AATA chapters offer college scholarships***

The American Institute of Aeronautics and Astronautics and the Alabama Aerospace Teachers' Association will award three engineering scholarships for 2005 to graduating high school seniors interested in pursuing degrees in engineering or related fields. The scholarship amounts are \$500, \$1,000 and \$1,500. For an application, go to [www.aata.net](http://www.aata.net)

## ***Earth Day 2005 logo and photo contests under way***

The Marshall Center Environmental Excellence Team is sponsoring two contests to celebrate Earth Day 2005. The logo and photo contests are open to all Marshall employees and contractors. This year's Earth Day slogan is "Sustain, You Have the Ability."

Original artwork logos must be submitted on 8.5-by-11-inch white paper with no more than four colors. The deadline for submission is Feb. 25. Photography submissions must be original 5-by-7-inch prints or digital photographs that showcase Redstone Arsenal's natural environment. Submissions may be black and white or color. Entry deadline for photos is March 31. Send all entries to Ben Morrow, Bldg. 4200, Room G-11/M. See "Inside Marshall" for complete contest rules.

## ***Engineers Without Borders chapter proposed for Madison County***

Anyone interested in starting a Huntsville-Madison County chapter of Engineers Without Borders should contact Stephen Clanton at 544-5643. Engineers Without Borders is a non-profit, humanitarian organization established to partner with developing communities to improve the quality of life of its residents.

## ***Shuttle Buddies to meet Feb. 28***

The Shuttle Buddies will meet at 9 a.m. Feb. 28 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757.

**Classified Ads**

**Miscellaneous**

Matchbox X-33 "Venture Star" Nos. 36-40, Series 8. Three sets. MIP. \$30 per set. 303-3702  
 Maytag Performa washer & dryer set, white, 3 yrs. old, CR top rated, \$400/set. 656-0461  
 Harley Davidson Power Wheels, pink/purple motor cycle, \$85. 353-0370  
 Dogwatch containment system, 5 collars, \$300; Remington 1100 magnum shotgun modified, \$450. 256-759-1494  
 Camper shell for short S-10, \$125; Sunn Model-T amp, \$500; Bach Stradivarius trumpet, mint, \$1,200. 851-8085  
 Computer desk, wood, \$150; wedding dress, veil, size 8, \$150. 776-9165  
 Two high back teak chairs, \$120; old kitchen cabinet, original hardware, needs painting, \$85. 539-1316  
 Body-Gard bedliner for Nissan Frontier extended cab or similar, \$175. 265-882-0755  
 Utility trailer, large enough for riding lawn mower w/50" cutting deck. 895-9348  
 Lily Flagg Club membership, pool/tennis, \$600. 883-9361  
 Little Tykes dual-light art desk and swivel chair, \$40. 683-3027  
 Nikon8008 35mm SLR w/MF-21 data back, \$200; Nikon8008s 35mm SLR w/MF-21 data back, \$330. 256-656-2965  
 Diamond solitaire ring, .25 carat, \$100; diamond cluster heart-shaped ring, \$125. 683-1279  
 Two XL-twin all-cotton futon mattresses, make king together, never used, \$200 for both. 520-3874  
 Oak dining set, \$850; wood folding table, \$25; desk, \$50; computer desk /hutch, \$50. 534-0939  
 Left-handed Slot-line Inertail, S,P,3,9, Taylor made driver, 3.5 woods, Maxfi I putter, \$200. 259-5140  
 Drum machine, new, Alesis SR-16, easy to use, \$120. 256-776-6998  
 Crib, 3-in-1, converts to youth bed & full size, light wood, mattress included, \$125. 859-4048  
 Bedroom suite: Queen headboard, frame, dresser, mirror, chest, nightstand, \$650. 730-2583  
 Sony Playstation 2, additional controller, 2 memory cards, 5 games, many extras, \$200. 256-353-9020  
 S&W 357 magnum, Model 686, stainless, 4" barrel,

hogue grips and holster, \$425. 508-5655  
 Incredible Hulk children's Power Wheel three-wheeler w/battery & charger, \$45. 721-2239  
 Fender Japan1962 Re-issue Stratocaster w/case, \$350; Fender Villager 12-string w/case, \$175. 880-7113  
 Steel wire dog cage, 24"Lx19"Wx20"H, w/metal pan, \$50. 882-2369  
 Two 14" SVGA CRT monitors, \$10 each. 256-830-8934  
 Leather biker jacket, black, XL, detachable quilted liner, \$125. 256-777-5924  
 Panasonic KX-FP200 facsimile w/cartridge, \$50; Panasonic KX-FP200 facsimile replacement cartridge, new, \$15. 461-6459  
 Infinity BU-120 subwoofer, blown amp, good for parts (box, driver, etc.), \$25. 880-1544  
 Craftsman workbench w/lights, power, new, \$300; computer desk, \$150. 776-9165  
 AKC German Shepherd puppies, champion line, 3-females, black/tan, born 9/29/04, vet checked, shots, \$375. 256-694-5912  
 Mixed Chow & Lab puppies, 2 months, 4 females, \$50 each. 256-858-2056  
 Kenmore Elite electric range, Model 790.46822, slide-in, glass cook-top, convection oven, warming drawer, white, \$800. 256-683-0625  
 Pennsylvania House video cabinet, Cherry, holds up to 30" TV, VCR/DVD, \$750. 931-427-2059

1995 Ford Mustang, V6, standard transmission, best offer. 852-7046/lv. msg.  
 1998 Volvo Cross Country AWD, leather, moon roof, automatic, 99.5K miles, needs work, \$5,500. 880-9844  
 2000 Dakota, Quad Sport SLT, V8, all power, 56K miles, many extras, \$18,000. 256-757-0204  
 2001 Honda Accord EX, 5-speed manual, leather, CD, alloy, moonroof, 43K miles, \$13,000. 536-4146  
 1993 G20 Chevy Sherrord Hightop conversion van, 350/V8, white, TV/VCR, leather, non-smoking. 882-2076  
 2000 Ford Ranger SuperCab XLT, 4x4, 4-door, 45K miles, air, auto, CD, \$12,200. 256-603-0741  
 1995.5 Windstar GL, 155K miles, white/green, 3-yr. old transmission, \$2,200. 881-1895  
 1994 Saturn SL2, pw/pl, tilt, cruise, sunroof, leather, 152K miles, \$1,500. 256-753-0020  
 2002 Honda Odyssey EX, leather, redrock pearl exterior, 53K miles, \$21,500. 256-464-8073  
 1999 Chevy Lumina, V6, 4-door, one-owner, garaged, cruise, good tires, good gas mileage, \$4,300. 837-6649  
 2001 Ford Expedition XLT, 74K miles, rear air, 6-disc changer, backup sensors, towing, \$12,000. 895-0577  
 1995 Lexus SC300 2-door sport coupe, 3.0L engine, 53K miles, loaded, \$10,900. 881-8674  
 1994 champagne-colored Isuzu Rodeo, new engine w/3 year warranty from dealership, 5 speed. \$5,800 obo. 774-1684

**Vehicles**

1993 Mustang GT convertible, 5-speed, restoration started, consider trade. 256-931-2740  
 2002 Lincoln Towncar, Signature series, 4-door, 4.6L/V8, 7,200 miles, \$25,000. 355-6648  
 2001 Toyota 4Runner Limited, silver, leather, heated seats, 81.5K miles, \$18,000. 851-8738 after 5 p.m.  
 1967 Ford Galaxy 500, 4-door, no dents, running when parked, \$750. 882-0461  
 2000 Ford SuperDuty Lariat, 4x4, V10, auto, leather, loaded, 4-door, 91K miles. 256-683-6433  
 2001 Ford Explorer Sport, 4L/V6, \$6,500. 233-6197  
 1993 Custom Chevy van, leather, extended top, seat control for TV/dual stereo, Super Nintendo. 256-656-2380  
 1999 Pontiac Grand Prix GTP, 90K miles, loaded, new transmission, \$7,750. 256-604-8157  
 2004 Toyota Camry LE, 4-cyl., automatic, 4-door, white, SE pkg., 24K miles, \$17,900. 256-773-5051

**Wanted**

Two door speakers for Toyota Camry. 883-2757  
 "Beatle Bass" guitar, knock-off, right-hander, must be cheap. 539-5495

**Found**

Numerous glasses and cases, ear ring. Call 544-3623 to claim/identify

**Lost**

Men's 10K gold wedding ring, \$200 reward. 544-7644

**Free**

Used trampoline w/side safety net, purchased at Sam's, disassemble & remove. 880-7106

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