



MARSHALL STAR

Serving the Marshall Space Flight Center Community

Feb. 8, 2007

Center Director David King says 2008 budget request confirms Marshall critical to NASA success

By Shelley Miller

President Bush announced on Monday his fiscal year 2008 budget request which included a \$17.3 billion request for NASA, a 3.1 percent increase over 2007. The Marshall Center also fared well with a total operating budget of \$2.7 billion, an increase of over \$380 million over the 2007 request.

NASA Administrator Michael Griffin said, in a statement on the budget, "This increase demonstrates the president's commitment to NASA and to maintaining our nation's leadership in space and aeronautics research." Griffin also stated he believes the agency is heading in the right direction, has made great strides this past year and is on track and making progress in carrying out its tasks.

Griffin also noted that while the House version of the fiscal year 2007 budget would result in a reduction for



Doug Staffer/MSFC

Marshall Center Director David King, left, and Associate Director Robin Henderson take questions from Marshall employees following King's all-hands briefing on NASA's fiscal year 2008 budget request in Morris Auditorium.

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Feb. 20 marks 45 years since astronaut John Glenn piloted Friendship 7 spacecraft

Astronaut John Glenn, left, and Dr. Wernher von Braun, the first director of the Marshall Center, talk in the control room of Marshall's Vehicle Test Section of the Quality Assurance Division on Nov. 28, 1962. Forty-five years ago, on Feb. 20, 1962, Glenn piloted the Mercury-Atlas 6/Friendship 7 spacecraft on the nation's first human-tended orbital mission. Launched from Kennedy Space Center, Fla., Friendship 7 completed a successful three-orbit mission around the Earth, reaching a maximum altitude of approximately 162 statute miles and an orbital velocity of approximately 17,500 mph.

Kynard appointed to SES, named manager of Marshall's Upper Stage Engine in Exploration Launch Projects Office

Michael Kynard has been appointed to the Senior Executive Service and named manager of Marshall's Upper Stage Engine in the Exploration Launch Projects Office.

The Senior Executive Service is the personnel system covering top managerial positions in approximately 75 federal agencies.



Michael Kynard

Kynard is responsible for the design, development, testing and evaluation of the J-2X engine. The J-2X will power the Upper Stage of the Ares I crew launch vehicle and the Earth Departure Stage of the Ares V cargo launch vehicle. He has served as acting manager of the office since September 2006.

Previously, Kynard was manager of the Ares V Core Stage and Core Stage Engine Office in the Exploration Launch Projects Office. He was responsible for development of the Ares V core stage, including the design, development and upgrade of the RS-68 engine. He also was responsible for the design and development of the core stage tanks and structure.

In 2005, Kynard became acting manager of the RS-25 Upper Stage Engine Office. He was responsible for the Space Shuttle Main Engine Project evolved Upper Stage Engine solution as a part of the Exploration Launch Projects Office.

For the majority of his career, Kynard supported the Space Shuttle Program. He served in positions of increasing technical and

managerial responsibility within the Space Shuttle Main Engine Project, including Marshall's Resident Office test lead at NASA's Stennis Space Center, Miss.; senior propulsion laboratory engineer for the shuttle main engine; lead for the main engine systems and requirements team; and deputy manager of the Space Shuttle Main Engine Project.

Kynard participated in the Cooperative Education Program at Marshall in 1985, supporting development of the gamma ray observatory. He joined NASA full time as an electrical engineer in Marshall's Information and Electronic Systems Laboratory, where he worked on the development and verification of space shuttle main engine flight software.

Throughout his 22-year NASA career, Kynard has received numerous awards and honors, including a Silver Snoopy Award, the NASA Exceptional Achievement Medal and Center Director's Commendation. He has co-authored several American Institute of Aeronautics and Astronautics papers, and has been published in "Aerospace Engineering," a publication of the Society of Automotive Engineers.

A native of Moundville, Ala., Kynard graduated in 1987 with a bachelor's degree in electrical engineering from the University of Alabama in Tuscaloosa.

Jessica Wallace, an ASRI employee and Marshall Star editor in the Office of Strategic Analysis and Communications, contributed to this article.

Marshall Associate Director Robin Henderson 'takes to the road' for discussions with Marshall team

By Shelley Miller

Beginning this month, Marshall Associate Director Robin Henderson will kick off a series of "roadshow" executive communication briefings across the center. In an interactive dialogue with front-line supervisors, managers and team leaders, Henderson will share information about the agency and center governance structure and how it is shaping the way business is conducted at Marshall.

"We're committed to a free flow of information within the center, and supervisors are an important group to facilitate how we enhance communication

— directly with employees and across organizations," said Henderson. "The roadshow is designed to help connect supervisors and executive management to discuss issues and concerns, and to foster two-way communication."

A briefing and feedback session will be held with each organization. Topics of discussion also will include organizational alignment with the agency, the center's relationship and interaction with key stakeholders, and institutional objectives.

"Everyone's participation is important to continuing an open dialogue that will contribute to a healthy work environment

and to successfully achieving the center's mission," said Henderson.

Henderson's roadshow is the first in a planned series to occur twice a year. Marshall Deputy Director Charles Chitwood will conduct a roadshow later in 2007 with a focus on project management.

Front-line supervisors, managers and team leaders will be contacted by their administrative officer or management support assistant with the date, time and location of the briefing scheduled for their organization.

The writer, an ASRI employee, supports the Office of Strategic Analysis and Communications.

Sixty years of pioneering, leading and mentoring ...

Marshall's Werner Dahm still relishes his accomplishments

By Lori Meggs

Not everyone can say they get fan mail. But 60 years after Werner Dahm came to this country to build rockets, the letters keep coming — a tribute to the man who has touched almost every major launch vehicle this country has ever seen.

This month, Dahm also will receive birthday wishes as he celebrates his 90th on Feb. 16.

The humble aerodynamicist — who designed the shape of the vehicles to make them fly — still loves the attention, but says he's just glad the rockets worked as planned. And that's really been the theme in Dahm's life. Everything he touched has "worked."

His fame began in the mid-1940s when a U.S. Army officer came calling at his home in Bonn, Germany. The officer wanted Dahm, who had worked on guided missiles during World War II, to come to the United States.

Dahm agreed, but on one condition — that he could finish his aeronautical engineering education at the Institute of Technology in Aachen, Germany. He graduated in mechanical engineering in early 1947 and by the summer, Dahm found himself with about a hundred other men on a ship bound for the United States.

"It took us 17 days to get to New York," says Dahm, recalling the journey during a recent interview.

From there, the team was taken to Fort Bliss, near El Paso, Texas. Although Dahm didn't become an American citizen until 1960, he was given a very interesting engineering task at Fort Bliss — design a successor to the V-2 rocket. And that's where he met up with a fellow German named Wernher von Braun.

"We became great friends," says Dahm of his relationship with von Braun. "He understood that it would take all of our expertise working together to accomplish the task."

In 1950, Dahm and the entire von Braun rocket team transferred to Redstone Arsenal in Huntsville to work for the Army. Their new task was to design the Redstone Ballistic Missile — a surface-to-surface missile capable of carrying nuclear warheads. Dahm's main

task was to design the shape of the vehicle.

"It was my job to make it fly," says Dahm. "To everyone's delight, it did."

Pretty soon, the team was asked to develop a launch vehicle to carry a satellite into space. It was a new challenge, but one Dahm embraced.

"We shot it with the Redstone as a booster," says Dahm. Explorer I was the first U.S. satellite to orbit the Earth. "I remember waiting those 90 minutes it took to orbit for the sweetest sounds I ever heard — beep, beep, beep — coming from the satellite. That's when we knew we had done it."

By 1960, Dahm and the others transitioned to the newly created National Aeronautics and Space Administration facility in Huntsville, named the Marshall Space Flight Center. "We were still working on large launch vehicles, which eventually led to our work on the Saturn IB and Saturn V," says Dahm.

The Saturn rockets were developed to launch heavy payloads to Earth orbit and beyond. "The Saturn V was a huge beast when it launched. It was a proud moment," says Dahm.

The 1970s brought the dawn of the Space Shuttle Program — NASA's newest plan to launch large cargo. And once again Dahm was right in the thick of it. "We all went back to the same question — how could we make it fly," says Dahm.

That was a big question — especially for Dahm, tasked to design the flight and control systems. "We gradually learned what would work, and we had ourselves a well-developed machine that we are still proud of today," he adds.

Yet the man who figured out how to make it fly recalls witnessing only one space shuttle launch in person. "I'd rather watch it on TV. You can see more on TV," he explains.

Over the past two decades, Dahm has continued to work on modifications to the shuttle and mentor the next generation of engineers and aerodynamicists.

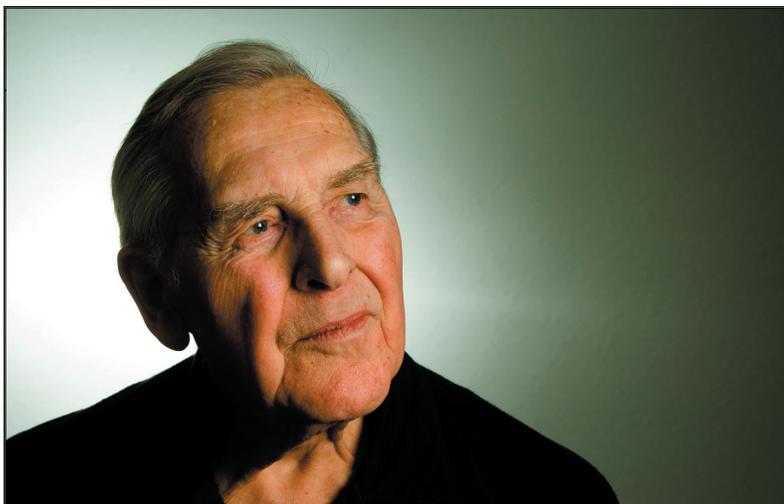
"America's space program is preeminent because folks like Mr. Dahm contributed to building it into the best in the world," says David King, director of the Marshall Center. "Mr. Dahm is part of our history, and I know generations to come are going to benefit from the knowledge he has shared."

After so many successful projects, he decided to stop working and start relaxing, officially retiring from the Marshall Center last month. "Mr. Dahm's life and life's work are an example of his energy, dedication and humble leadership, which has played a significant role in humanity's peaceful use of space," added King.

Why did he remain on the job until virtually the eve of his 90th birthday? "I still found it interesting, and I thought I could teach people a bit more," says Dahm. "I mainly tell them that you have to know your stuff."

He certainly did.

The writer, an ASRI employee, supports the Office of Strategic Analysis and Communications.



David Higginbotham/MSFC

Werner Dahm

Workshop on new risk management requirement to be held at Marshall on Feb. 15-16

A workshop on the Exploration Systems Mission Directorate's new Knowledge Management requirement will be held Feb. 15-16 at the Learning Center in Building 4200 at the Marshall Center. The new requirement involves the conduct of Pause and Learn, or PaL, sessions as outlined in ESMD's Risk Management Plan.

"Having a PaL greatly improved our flight preparation process," said Mike Rudolphi, Marshall's director of engineering. Pause and Learn sessions were first conducted at Marshall by Rudolphi in Aug. 2006. Garry Lyles, chief engineer of NASA's Exploration Systems Mission Directorate, said the new requirement helps projects identify new risks at the same time that it works to mitigate those risks. The Constellation Program is using PaL and around 30 PaL sessions have been held at Goddard for non-ESMD projects/activities outside of

risk management application.

"A PaL session is a facilitated meeting conducted soon after any milestone or achievement in the life of a project or activity," said Paul Cox, a trained facilitator who has led PaL sessions at Marshall and Goddard. "The purpose is to give the team a forum for figuring out for themselves how well they handled themselves in the situation — warts and all. The default rule in a PaL session is that whatever gets said in the meeting, stays in the meeting. The only audience for the PaL session is the team itself. It's so they can be honest with each other and improve both as individuals and as a team."

If any team would like to have a PaL session, even if it's not related to an ESMD project/activity, contact Tom Dollman at 544-6568 or tom.dollman@nasa.gov.

Budget

Continued from page 1

NASA, the Senate has yet to act. "Our programs proceed in a 'go-as-we-pay' manner; if we receive less funding than requested, we will adjust our pace," he said.

Marshall Director David King, speaking to employees in Morris Auditorium and on Marshall TV, was pleased with the announced budget request. "For Marshall specifically, we are a major contributor in moving the nation forward with its renewed focus of exploration and scientific discovery," said King. "Our work is critical to the agency's success, and the president's 2008 budget confirms this."

King said the budget request will continue to provide a stable workforce and productive spaceflight center as Marshall focuses on its commitments to flying the space shuttle until 2010; supporting completion of the International Space Station and managing science payloads; providing engineering and integration for the Ares I and Ares V vehicles; supporting lunar exploration and outpost architecture development and continuing science and instrument development efforts.

"Space exploration is our primary business, and this budget is good for us," said King.

King also echoed Griffin's wait-and-see position on the pending Senate deliberations for the FY07 budget, stating information will be provided to the workforce when available. "Some may see this as a challenge," said King. "I have confidence in this workforce. We rise to challenges. That's what we do."

At the conclusion of his briefing, King and Marshall Associate Director Robin Henderson fielded questions from employees. When asked how Marshall compares to other centers and about the

stability of Marshall's workforce, Henderson said, "we look very strong," and she is "excited about the work before us." She added that workforce levels are essentially at the same level this year and in 2008.

Henderson also shared plans for construction of Building 4602, a new 100,000-square-foot facility consisting of laboratory and office space that is funded in the 2008 budget request. She anticipates construction to begin in spring 2008 with completion around summer in 2010. It will be the third new facility in the 4600 suite of buildings.

The budget request also would allow for needed refurbishment projects and modifications to dynamic test stand and multiple test facilities to support the agency's exploration mission. Investments such as these are a vital part of ensuring the center's continued competitiveness while helping to produce significant savings in maintenance costs, added King.

The Michoud Assembly Facility in New Orleans also will be integral to the exploration mission according to King. He said support for space shuttle is still a priority and that great progress has been made in the management and utilization of the facility. In the future, significant work for the Constellation Program such as the Ares I upper stage, Ares V core stage and Orion crew exploration vehicle will be performed at the facility.

"We have an incredible amount of responsibility entrusted to us by the agency," said King. "The 2008 landscape looks good. We're pleased with the president's budget request, and we're ready to execute it."

For more information about NASA's fiscal year 2008 budget request go to www.nasa.gov/budget.

The writer, an ASRI employee, supports the Office of Strategic Analysis and Communications.

Severe Weather Awareness Week is Feb. 18-23

The Marshall Center will observe Severe Weather Awareness Week on Feb. 18-23. The center's annual tornado drill will be held Friday, Feb. 23, beginning at 8:50 a.m. Listen for the Emergency Warning System announcements and evacuate to protective areas when it's appropriate. Contact Cathy Miller, Marshall's emergency preparedness officer, at 544-3131 for more information.

Marshall celebrates Black History Month with series of documentaries

In celebration of Black History Month in February, the Marshall Center will showcase a series of documentaries in Morris Auditorium, Building 4200, in honor of African Americans. A leadership style seminar, following Dr. Martin Luther King Jr.'s principles, will complete the celebration Feb. 28. For more information, go to "Inside Marshall."

Director of Johns Hopkins Applied Physics Laboratory visits Marshall

Marshall programs and capabilities took center stage recently, as Dr. Richard Roca, director of the Johns Hopkins University Applied Physics Laboratory in Laurel, Md., toured the Marshall Center. During his visit,

he toured several key areas within Marshall's Science and Mission Systems Office, visited the National Space Science and Technology Center and met with Marshall Center Director David King.

Classified Ads

To submit a classified ad to the Marshall Star, go to Inside Marshall, to "Employee Resources," and click on "Employee Ads — Submit Ad." Ads are limited to 15 words, including contact numbers. No sales pitches. Deadline for the next issue is 4:30 p.m. Thursday.

Miscellaneous

Pennsylvania House video cabinet, cherry, holds up to 30" TV, VCR/DVD, \$725. 931-427-2059
Evening wear, black sequined spaghetti strap floor length formal gown, size small, \$245. 256-772-6469
E-Machine computer, 15" monitor, Windows Me, Star Office, Processor 633MHz, 15GB HD, 12X DVD, \$100. 256-479-9781
Upright bass, great condition, \$500. 565-3221
Sofa, loveseat, coffee table, two end tables, two lamps, 5x8 rug, \$350. 852-2682
Two twin-size down comforters, white, 240 thread count, 525 fill power. 883-0057
Round solitaire diamond ring, 1.33 carat, appraisal \$6,000, \$2,750. 582-4605
Klipsch Heresy II speakers, oak finish w/cane grilles, \$550. 256-536-3390
Tarp, extra heavy brown canvas, approx. 12x20 feet, make offer. 881-8849
Tapestry sofa and loveseat, green, \$450; 3-piece entertainment center, \$450; leather recliner, green, \$50. 520-6950
Two tickets "On Golden Pond", Saturday, March 3, Row G, center seats, \$95. 881-7819

Original equipment stereo/CD for 2003 Lincoln LS, \$150; Load Handler pickup truck unloader, \$100. 256-694-1217
Maytag Neptune washer, \$350; Sealy adjustable bed, \$175; La-Z-Boy lift chair, \$300; sofa/loveseat, \$275. 881-6388
Two Cardigan Welsh Corgis, male and female, need homes, \$150 each, covers neutering/vaccinations. 256-259-2164
Corner computer armoire, oak finish, must pick up, \$175. 829-0285
Weight equipment mats, rubber, 4'x6', 5/8" thick, 3 for \$75. 520-9318
Brindle Boxer puppies, 5 females, two males, parents onsite, for Valentine's Day. 256-883-6065
Local unprocessed honey, quart - \$7, pint - \$4. 656-0186
Baker's rack, three plexiglass shelves, one natural wood shelf, wine rack, \$75. 830-1524
Performance stationary bicycle trainer, hardly used, \$50. 256-797-2668/Lamar
Big Boy millennium recliner, \$450. 355-3550
Bessler 23 color enlarger w/accessories, \$125; Kenwood 440 amateur radio, power supply and accessories, \$500. 656-2951
George Jones concert, 3 tickets, VBCC Concert Hall, Feb. 16, 8 p.m., \$45 each. 256-233-1653
Circular dinette table w/4 swivel chairs, Chromcraft, \$200. 881-1249
Wood lathe w/5-drawer stand and storage area, \$300. 852-2255
Gas cylinders, \$40 each; new bug guard for 00-06 Tahoe, \$25; receiver hitch for GM pickup, \$25. 683-9364
Broyhill table, 42Wx60"Dx30"H, extends to 78", 18" leaf, and 8 chairs, \$800. 653-6774
Glass-top kitchen table, metal base, leaf scroll work, 4-Pennsylvania House chairs, cherry, wheat back, \$275. 881-3675
Golf clubs, men's left-handed, woods, 1/3/5, irons 3-9, PW, SW, putter, no bag, \$100. 882-3983

Vehicles

2000 Nissan Frontier crew-cab, 4 door, automatic, CD/cassette, 106K miles, silver, liner, remote, new tires, \$9,600. 880-9025
2002 GMC Mobility van, 50K miles, raised roof/doors, heavy-duty lift, b/u camera, \$22,900. 256-520-5791

2000 Toyota Tacoma, 4x4, SR5, ext. cab, auto trans., leather, tow package, 118K miles, loaded, \$10,800. 256-654-2221
2006 Accord EX, white/tan, moonroof, loaded, cloth interior, 4K miles, must sell, \$21,900. 883-6894
1987 Nissan pickup, 5 speed, shell, bedliner, new tires, 239K miles, \$1,500 firm. 830-9406/Steve
1999 Chrysler Sebring LXI, 125K miles, loaded. 256-714-0904
1997 Jeep Grand Cherokee Laredo, red, leather, 6 cyl., 4.0L, 190K highway miles, 23mpg, \$3,700. 256-599-3094
1996 Chrysler Town and Country XLT van, 94K miles, \$4,100. 256-852-6952
2000 F250 XLT, power stroke, diesel, auto, hitches, white, extended cab, 74K miles, \$17,500. 683-4151
2005 Mustang GT Premium, 11.2K miles, red fire, charcoal leather, loaded, garaged. 256-541-2435
1995 Explorer Limited, black w/tan leather, loaded, 6-CD changer, 167K miles, \$4,000. 882-2800
2004 GMC Yukon SLT, leather, DVD-player, 3rd row seat, OnStar, new tires, 80K highway miles, \$17,000. 353-0370
2004 Harley Davidson Road King Classic, pearl white, 13K miles, garage kept, \$15,000. 776-0811
1995 Jeep Grand Cherokee Laredo, dark green, 6 cyl., 4.0L, 125K miles, 2WD, \$3,850. 256-355-8530
1993 Chrysler New Yorker, white, 70K miles, new tires/brakes, clean, loaded, \$2,100. 824-2124

Wanted

Upright piano for student. 722-9989
Old, no longer used, wooden baseball bats, any condition. 351-1754

Free

Nintendo DS. 256-694-4792
Gutters/downspouts, aluminum, blue, just removed from house, complete. 961-0548

Found

Wedding band, NASA Wellness Center, Jan. 27. 544-0252 to identify/claim
U.S. currency on 4th floor of Bldg. 4200 on Jan. 24. 544-4680 to identify/claim

Obituaries

Ralph Florus Smith, 74, of Geraldine died Jan. 1. He retired from Marshall in 1981 as an aerospace engineer technician. He is survived by his wife, Alene Smith.

James C. Snellgrove, 87, of Huntsville died Jan. 5. He retired from Marshall in 1978 as an electronics engineer. He is survived by his wife, Rosa Emanuel Snellgrove.

Marvin L. Jensen, 84, of Huntsville died Jan 19. He retired from Marshall in 1980 as an administrative officer. He is survived by his wife, Evelyn Jensen.

Frederick J. Klan, 75, of Huntsville died Jan. 22. He retired from Marshall in 1988 as a computer equipment analyst. He is survived by his wife, Mary Rose Bryant Klan.

NASA unveils logo at Michoud Assembly Facility



NASA/Lockheed Martin

The NASA logo is again hanging on the Vehicle Assembly Building at NASA's Michoud Assembly Facility in New Orleans. The logo – heavily damaged during Hurricane Katrina, which struck the Gulf Coast in August 2005 – was officially unveiled during an employee address at the facility Feb. 2. At the event were Doug Cooke, deputy associate administrator for NASA's Exploration Systems Mission Directorate in

Washington; Charles Chitwood, deputy director of the Marshall Center; and Sheila Cloud, transition director for Michoud at Marshall. They thanked employees for their hard work and dedication during some difficult times over the last year and a half, and gave an overview of future work planned at Michoud. This work will support the Constellation Program and help carry out NASA's exploration mission objectives.

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