



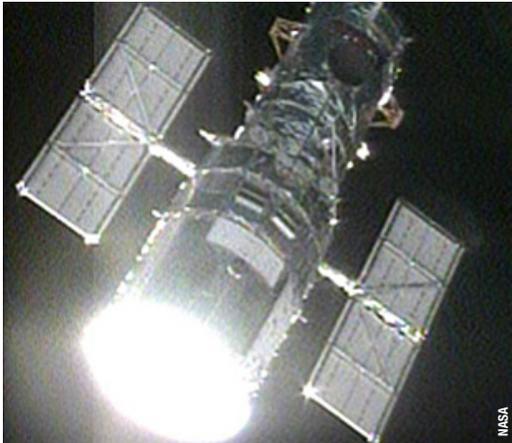
MARSHALL STAR

Serving the Marshall Space Flight Center Community

May 14, 2009

Space shuttle Atlantis' mission to service NASA's Hubble Space Telescope under way

The Hubble Space Telescope is seen from space shuttle Atlantis. Docking of the two spacecraft occurred May 13, 340 miles above the Indian Ocean.



By Sanda Martel

Space shuttle Atlantis docked to NASA's Hubble Space Telescope May 13 at 11:54 a.m. CDT, after launching from the Kennedy Space Center, Fla., May 11.

"The launch of Atlantis was spectacular and the STS-125 mission to service the Hubble Space Telescope for the last time is well under way," said Shuttle Propulsion Office Manager Steve Cash. "The hard work and focused efforts of the entire Marshall Space Flight Center shuttle team, including the propulsion systems teams, resulted in a beautiful launch to begin this mission."

"This mission is so important – to extend the operational life of one of the greatest science instruments ever placed in space, the

See Launch on page 8

NASA, Marshall receive potential increases in FY10 budget proposal

By Rick Smith

The president's fiscal year 2010 budget request, announced May 7, would provide \$18.7 billion for NASA – a potential 5 percent increase above the agency's fiscal 2009 budget.

That request includes a potential budget increase for the Marshall Space Flight Center of \$407 million, a figure that would raise the center's fiscal year 2010 budget to \$2.93 billion. The

See Budget on page 6

Marshall Center presents contractor excellence awards

By Rick Smith

Three Marshall Space Flight Center contractors – ATK Space Systems of Magna, Utah; Science Applications International Corporation of San Diego, Calif.; and Gray Research Inc. of Huntsville – are winners of Contractor Excellence Awards for significant contributions to the Marshall Center's mission.

Robert Lightfoot, acting director of the Marshall Center, presented the awards May 7 at Marshall's annual Center Director's Breakfast. The event was attended by some 300 community leaders, elected officials and industry partners.

Lightfoot also presented the center's first Outstanding Educator Award to a local middle-school teacher for inspiring and

See Awards on page 4



Marshall Center Acting Director Robert Lightfoot addresses the audience at the annual Center Director's Breakfast.

David Higginbotham/MSSC

Director's Corner

We will continue the path we're on

Many of you were able to join me last week for the roll-out of President Obama's FY2010 proposed budget for NASA. For those of you who weren't able to join me, the budget provides \$18.69 billion to advance Earth science, complete the International Space Station, explore the solar system and conduct aeronautics research. In conjunction with the budget release, the White House also announced the launch of an independent review of NASA's human spaceflight activities with a goal of providing options that will ensure that the nation's human spaceflight program remains safe, innovative and affordable in the years following the space shuttle's retirement. The panel will examine Constellation and possible alternatives, working closely with NASA and seeking input from the Congress, the White House, the public, industry and our international partners. The results of the review will support an administration decision by August 2009 on how to proceed. NASA may provide a budget update to the Office of Management and Budget reflecting any changes to the administration's exploration goals resulting from the review.

The review panel will be led by one of the most experienced leaders in the aerospace industry, Norman Augustine. Dr. Michael Hawes, associate administrator of NASA's Office of Program Analysis and Evaluation, will lead NASA's team supporting the review. With Norm's and Mike's leadership, I'm confident that it will be a thorough review.

The budget also confirms the great confidence that NASA continues to place in us. Marshall's FY2010 budget request is \$2.9 billion – a 10% increase over FY2009 and one of the largest budgets in NASA. It's clear that Marshall will continue to be NASA's "go to" Center for designing and developing space and launch systems to support the Agency's science, operations and exploration missions.

Based on the work assigned to us, we will thus continue the path we're on, focusing on six priorities:

- Flying the space shuttle as safely as possible until its retirement
- Supporting completion of the ISS and manage science payloads
- Developing the Ares I rocket for Initial Operational Capacity
- Continuing planning for Ares V



- Managing the Lunar Quest program, including work on GRAIL, LADEE and the International Lunar Network
- Continuing science and instrument development efforts

This is a busy time for us. We just launched STS-125, and we have two more this summer. Let's focus on doing a great job with the work we have before us – shuttle missions and the launch of LRO/LCROSS and Ares I-X. By doing that, we'll continue to justify the tremendous confidence that NASA and our nation have placed in us.

Peter M. Limbert
Acting Director

Obituaries

Terry W. Boshers, 77, of Madison died March 26. She retired from the Marshall Center in 1992 as a secretary. She is survived by her husband, Bill Boshers.

Ray Dupree Etheridge, 88, of Decatur died March 31. He retired from the Marshall Center in 1985 as an aerospace engineer. He is survived by his wife, Sara Etheridge.

Benny Lott, 86, of Athens died March 31. He retired from the Marshall Center in 1986 as an electronics technician. He is survived by his wife, Mary Opal Lott.

James Render Carden, 77, of Mulberry, Tenn., died April 7. He retired from the Marshall Center in 1987 as an engineer.

Inellia Freeman, 65, of Huntsville died April 24. She retired from the Marshall Center in 1994 as an administrative officer. She is survived by her husband, William Freeman.

William Hiram Ealy, 83, of Huntsville died April 25. He retired from the Marshall Center in 1981 as an aerospace engineer. He is survived by his wife, Bettie Ealy.

Marshall Center's Web presence goes 'social'

By Brooke Boen

Feeling more "sociable" these days? That's not surprising. NASA Web sites are leading the way on interactive, social media for government Web sites – and the Marshall Space Flight Center is a high-profile player.

Generally speaking, "social media" means interactive Web pages that encourage site visitors to comment on content and share their own. Complicated? Not really – many of you are already doing this. Do you comment on blogs? Maintain a Facebook page? Follow a Twitter feed? Subscribe to YouTube? Congratulations! You're in the social media movement.

The social surge didn't happen overnight. In 2008, NASA revamped its public Web sites to incorporate Web 2.0 capabilities: interactive polls, commenting and RSS feeds that alert visitors about new content. The agency's public Web site, nasa.gov, now employs a robust selection of blogging, Facebook, YouTube, Twitter, Flickr and other social media sites.

NASA has received glowing proof that site visitors like its social media efforts. On May 6, nasa.gov won the "People's Voice" Webby for best government Web site. Webbies are presented each year by the International Academy of Digital Arts and Sciences to honor Internet excellence, and the "People's Voice" award is determined by popular vote. In February, NextGov.com, a group that monitors information technology management on federal government Web sites, recognized NASA as one of the top five federal agencies employing best practices in Web 2.0. Socialmedia.com, an independent blog that evaluates government social media use, selected @NASA as one of the best Twitter feeds in the federal government.

"Marshall has been in the vanguard of NASA's social media success," said June Malone, news chief for Marshall in the Office of Strategic Analysis & Communications. "Social media has allowed us to expand our ability to not just communicate, but also to engage

the public in our work."

As early as 2008, Marshall created Ares TV (<http://www.youtube.com/AresTV>), a YouTube channel dedicated to NASA's Ares Rockets; and multiple photo galleries in Flickr (<http://www.flickr.com/photos/28634332@N05/>), a community-based, interactive photo site. Since their inception, the Ares TV and Marshall's Flickr galleries have logged over 100,000 views and attracted a global following.

So far in 2009, Marshall has stormed into the social media world. Project blogs such as the Ares I-X test launch (<http://blogs.nasa.gov/cm/blog/Ares%20I-X/>) and the Marshall-managed Michoud Assembly Facility in New Orleans (<http://blogs.nasa.gov/cm/blog/michoud/>) allow visitors to read and comment on the latest inside perspective. Marshall's YouTube presence has added NASA Marshall TV (<http://www.youtube.com/user/NASAMarshallTV>), a channel that highlights center videos and encourages visitor feedback.

Marshall's Facebook presence has also soared in recent months. Some high-profile pages include the Marshall Center (<http://www.facebook.com/people/Nasa-Marshall/1658575961>); Ares I-X (<http://www.facebook.com/group.php?gid=77195835389&ref=mf>), Ares Projects (<http://www.facebook.com/pages/Huntsville-AL/NASA-Ares-Projects-Office/74827287633?ref=mf#/pages/Huntsville-AL/NASA-Ares-Projects-Office/74827287633>). Visitors can easily become a friend or fan of these pages and provide feedback, comments and suggestions.

One social media site enjoying huge success is Twitter, a microblogging tool for brief, 140-character updates among users.



The Marshall Center's Facebook page is available at <http://www.facebook.com/people/Nasa-Marshall/1658575961>.

The Marshall News feed (<http://twitter.com/NASAMSFCNews>) provides the latest updates from the Marshall Center. Marshall's Ares I-X Twitter feed (http://twitter.com/NASA_Ares_I_X) keeps followers in the loop about pre-launch news. NASA Ares (http://twitter.com/NASA_Ares) tracks the next journey to the moon, and if you need a little heat, Marshall's "Smoke and Fire" feed (<http://twitter.com/NASAsmokeNfire>) highlights space shuttle propulsion.

No event has showcased Marshall's social media savvy more than the 2009 Great Moonbuggy Race, which used a rich combination of blogging, Facebooking, Flickr-ing and Twitter-ing to engage students, media and the public with race information. Over the two-day race period, almost 500 Twitter updates, or "tweets," provided race results and encouraged real-time feedback from race enthusiasts.

Ready to get involved? A great first stop is NASA's Collaborate site (<http://www.nasa.gov/collaborate>), a list of social media sites across the agency. If you're partial to Marshall, visit the Marshall Multimedia page (<http://www.nasa.gov/centers/marshall/multimedia/index.html>) to see Marshall-managed social media pages.

The only thing missing from these great pages is YOU! Check out this interactive new world, and we'll see you in cyberspace.

Boen, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

Sparkman Middle School's Angela Williams receives first Marshall Center Educator Excellence Award

By Rick Smith

Angela Williams, a math teacher at Sparkman Middle School in Toney, Ala., is the recipient of the first-ever Marshall Space Flight Center Educator Excellence Award.

Williams, who chairs the math department at Sparkman, received the honor for engaging and inspiring students to pursue technical careers critical to the economic success of NASA, North Alabama and the nation.

Williams has been invited to a space shuttle launch, and will attend a Teacher Education Workshop at NASA's Kennedy Space Center, Fla.

Marshall Center Acting Director Robert Lightfoot presented the award and recognized three of Williams' colleagues as well on May 7, during the annual Center Director's Breakfast.

Honored with Williams were Pam Hendrix, a guidance counselor at Liberty Middle School in Madison; Amy McKenzie, the gifted program specialist at Challenger Middle School in Huntsville; and Ann Smith, a business education teacher at Chapman Middle School in Huntsville. Each has worked with Williams since 2007 on a joint initiative to spark new enthusiasm for science, technology, engineering and mathematics among area middle-school students.

"America's space program can only be sustained if we can get and keep the brightest young engineers, scientists and support personnel," Lightfoot said. "These honors are designed to show our educators how important they are to NASA's future, and how very grateful we are for their efforts."

The Marshall Center Educator Excellence award, and the classroom initiative that led to it, stemmed from a 2007-2008 partnership between the nationwide, non-profit Junior Achievement program and the Huntsville-based Workforce Coalition Education Task Force. The coalition is a partnership of community stakeholders dedicated to improving science, technology, engineering and mathematics education among K-12 students.

The partnership, founded by the Huntsville-Madison County Chamber of Commerce and the Marshall Center's Academic Affairs Office, launched the technical, career-oriented initiative in Challenger, Chapman, Liberty and Sparkman middle schools.

Williams, Hendrix, McKenzie and Smith led the initiative at their respective schools. Some 870 students explored technical career opportunities, visiting the Marshall Center, Huntsville Hospital and local businesses and professional institutions.



Sparkman Middle School math teacher Angela Williams receives the Educator Excellence Award from Marshall Acting Director Robert Lightfoot.

The teachers also coordinated with Marshall's Academic Affairs Office to present NASA Digital Learning Network modules – interactive teleconferences with scientists and engineers at various NASA centers, focusing on a variety of space exploration and science topics. They also arranged for other educators at their schools to participate in professional development workshops in Huntsville, including the Marshall Center.

For more information about the task force and its technical education initiative, visit <http://www.huntsvillealabamausa.com/workforce/coalition.html>.

Smith, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

Awards *Continued from page 1*

engaging students to consider technical careers. (See related article above.)

Companies eligible for the Contractor Excellence Awards were evaluated by a Marshall team from across the center on the basis of contract technical performance; schedule and cost performance; leadership; quality improvements; customer satisfaction; innovation; and a category that included safety, diversity and outreach.

ATK Space Systems, formerly ATK Launch Systems of Brigham City, Utah, was honored in the "Large Business – Product" category. It provides the space shuttle's reusable solid rocket motors and

booster separation motors. It will deliver the first stage for the Ares I rocket, NASA's next-generation launch vehicle, and the launch abort system motor for the Orion crew capsule, slated to ferry explorers to Earth orbit and beyond in coming decades.

Science Applications International Corporation was honored in the "Large Business – Service" category. The company's Unified NASA Information Technology Services contract, or UNITEs, provides information technology services to all 10 NASA centers and a worldwide community of more than 100,000 users – including a significant user community in Russia.

Gray Research received the "Small

Business – Service" category award. The company provides technical and programmatic solutions and support to NASA as well as to the U.S. Department of Defense and commercial customers.

Recipients of the Marshall Center's Contractor Excellence Award may become nominees for NASA's George M. Low Award. Named for the former NASA deputy administrator who served from 1969 to 1976, the Low Award is the agency's oldest and most prestigious award for quality and performance in the aerospace industry.

Smith, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

Asian Pacific American Heritage Month continues

Marshall Center engineer Caroline Wang to share art, culture at Lunch and Learn on May 14

By Rick Smith

In one of Caroline Wang's richly detailed watercolors, the Eiffel Tower spears the sky. But the skeletal, leafless trees around it bear an unmistakable Eastern influence, as if transplanted from the Manchurian steppes. In another painting, a proud space shuttle waits for launch against a brightly hued sky ... and a delicate crane, an iconic element of traditional Asian art, flaps lazily through the scene.

That mix – Far Eastern influences and traditions, paired with the machinery and marvels of the modern world – is prevalent in Wang's work, and a fair representation of her dual life as artist and Marshall Space Flight Center engineer.

Wang, who manages software assurance for the Ares I Upper Stage J-2X Engine in Marshall's Safety & Mission Assurance Directorate, will present a Lunch and Learn session on "Cultural Diversity in Art" May 14 at 11 a.m. in Building 4200, Room P110. She will speak about the differences and similarities in art around the world, show a video about her work and give a short demonstration of Asian painting using calligraphic brush strokes – long, uninterrupted swaths or stripes of color requiring precise control and focus.

The event is part of the Marshall Center's Asian Pacific American Heritage Month celebration.

Wang started painting when she was 5 years old, growing up in Taipei, Taiwan, where she won numerous art awards during her childhood. Emigrating to the United States in the 1970s, she studied art at the University of Minnesota and earned a master's degree in mathematics from the University of Wisconsin in 1972. She joined NASA in 1980, starting her career at the Marshall Center as a computer software designer. And she just kept painting.

The juxtaposition of art and engineering never struck her as an odd mix. "The best designs, whether in engineering or art, come equally from craft and creativity," Wang says. "The creative mind is what moves you forward. You always have to think of new and better ways to solve problems. But creativity isn't enough. Engineering, like art, requires technique and discipline."

Wang paints whatever strikes her fancy – wildlife and flowers, minimalist tableaus and sprawling landscapes – based on her worldwide travels. She works primarily in watercolor, often painting on traditional silks, linen or rice paper. She has exhibited her art across Alabama and in Atlanta and Memphis, Tenn. She received the 2005 "Best in Show" award at the Tennessee Valley's Exhibit South festival in

Tuscumbia, Ala., and recently concluded a month-long exhibit at the Huntsville-Madison County Public Library.

It's harder lately to find time to devote to her art, she admits, for her engineering work is keeping her busy. In addition to quality assurance work for the Ares I upper stage engine, she is the principal investigator for a software assurance research project funded by NASA Headquarters, in which she evaluates new methods for validating NASA software. She also sits on NASA's Agency Inventions and Contributions Board, which assesses research across industry, academia and the government and makes funding recommendations to develop and mature technologies that can benefit NASA and the nation.

But as NASA continues to challenge and inspire her, so too does her art. "It's always been my relaxation," she says. "It's what I love."

For more information about her Lunch and Learn session on May 14, call Wang at 544-3887.

The Marshall Center is planning additional events in May to celebrate Asian Pacific American Heritage Month. For more information, call Willie Love at 544-0088.

Each May, Marshall, partnering with Redstone Arsenal, recognizes the contributions of people of Asian and Pacific Islander heritage benefiting NASA and the nation. The annual recognition month was formally begun in 1990 and became U.S. law two years later.

Smith, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.



Artist and Marshall Center engineer Caroline Wang with one of her watercolors.

center's 2009 budget is \$2.52 billion.

The administration's budget would fund human and robotic space exploration, as well as "a program of space-based research to advance our understanding of climate change and its effects."

The budget proposal also would support the use of the space shuttle to complete assembly of the International Space Station before the space shuttle fleet is retired in 2010.

"The \$18.7 billion budget proposal for 2010 is fiscally responsible," said NASA Acting Administrator Christopher Scolese, "and reflects the administration's desire for a robust and innovative agency aligned with the president's goals of advancing our nation's scientific, educational, economic and security interests."

During his press conference May 7, Scolese said, "We have a very strong supporter of this program in the president and in the (administration's) science advisor." Harvard physicist John Holdren was named assistant to the president for science and technology in December 2008.

Marshall Center Acting Director Robert Lightfoot spoke to community and industry leaders, stakeholders, news reporters and employees about the budget request May 7, describing it as good news for Marshall's work force, which is expected to remain stable in the coming year.

"The Marshall Center's uniquely talented and proven work force will continue to meet all the challenges of our nation's space exploration endeavors," Lightfoot told employees at an all-hands meeting. "The Marshall Center will have a full plate in 2010. Everyone will be very busy indeed."

Independent review planned

NASA also announced May 7 that it will comply with a request by the president to launch an independent review of human spaceflight activities.

The review board will be headed by Norman Augustine, former president and chief executive officer of the Lockheed Martin Corporation and currently a lecturer at Princeton University in Princeton, N.J. Augustine has chaired the American Red Cross and the National Academy of Engineering; served as undersecretary and acting secretary of the U.S. Army; and is a past president of the American Institute of Aeronautics and Astronautics.

Scolese has asked Dr. Michael Hawes, NASA associate administrator for program analysis and evaluation, to serve as the agency's principal liaison with Augustine's team.



Marshall Center Acting Director Robert Lightfoot addresses Marshall team members May 7 in Building 4316.

The review is expected to be conducted "in the next 60 to 90 days," Scolese said, "so that by August we are prepared to make any budget adjustments that may need to be made."

Until then, Lightfoot said, the Marshall Center's priorities remain unchanged. They include continuing to support space shuttle propulsion through 2010; completing construction of the International Space Station and managing all science payloads; proceeding with development of the Ares I rocket and planning for the Ares V heavy cargo launch vehicle; managing the Lunar Quest program, including work on key lunar precursor missions that will enable future crewed exploration of the moon; and continuing science and instrument development efforts supporting a variety of science and exploration endeavors.

"As long as we fly in space, the Marshall Center is going to be involved in it," Lightfoot said.

For more information about the budget request, visit <http://www.nasa.gov/budget>. Complete information about the president's budget proposal is available at <http://www.whitehouse.gov/omb/budget>.

Smith, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

'Focus on Marshall' looks at the art of simulating moon soil and next generation propulsion testing

By Lori Meggs

New ways of testing propulsion systems for future space missions and recreating moon soil are on the May episode of the Marshall Space Flight Center's monthly video program, "Focus on Marshall."

The "Focus on Marshall" team travels to the Kennedy Space Center, Fla., to highlight the next generation of propulsion testing in which Marshall engineers are flying test equipment on space shuttle missions. The episode shows viewers experimental hardware – attached to solid rocket boosters during a shuttle launch – that measures pressure oscillation and forces experienced by the boosters during flight. Marshall Center

engineer Sam Ortega discusses the research and how it will benefit future spacecraft designed by NASA.

Another segment features the work of a Marshall Center team studying the many challenges of living and working on the moon. Viewers will learn from Marshall's Carole McLemore and Doug Rickman how they are recreating the unique soil astronauts will find on the lunar surface.

During missions in the 1970s, Apollo astronauts returned to Earth with hundreds of pounds of moon rocks and soil. But it was not enough to distribute to the many scientists now developing equipment to use on the lunar surface, such as vehicles and other hardware. A

group of Marshall engineers, scientists and geologists, in cooperation with the U.S. Geological Survey in Denver, is addressing that shortage. The team uses rocks with specific minerals found on Earth to create the right composition of material making up moon dirt. Focus on Marshall shows viewers what it takes to recreate the soil, and why it's so important for a return to the moon in the next decade.

"Focus on Marshall" airs on Marshall TV May 14, May 26 and May 28 at 11 a.m., noon and 1 p.m. It also is available on NASA TV, Inside Marshall and on the NASA Portal.

Meggs, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.

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, May 21, is 4:30 p.m. Thursday, May 14.

Miscellaneous

Sony PSP, 12 games, Spider-Man 3 movie, \$250; Ipod Video Classic, black, headphones, cases, \$100. 757-0469

Kenmore gas stove, white, gray burners, \$250 obo. 606-1717

Kohler kitchen sink, double bowl, white porcelain, white Delta pull-out faucet, \$100. 464-0337

John Deere GX85 riding mower, operable, extras, \$100. 881-6909

Lily Flagg Pool membership, includes 2009 membership dues, \$900. 881-0551

2004 Kubota T1870-48 lawnmower, 18HP V-Twin Kawasaki, 132 hours, hybrid transmission. 206-0068

Truck bed rails, chrome, fits Dodge 1500 short bed, 68" hole to hole, \$45. 379-3606

Ampeg Reverberocket 50W 2x12 guitar amplifier, Diamond

Blue Tolex, \$300. 479-8536

Dual-purpose Fit for Life Airgometer Stepper, \$100; Ab Lounge 2, \$50. 852-6915

Three Indy 500 tickets, third turn, high row, \$85 each. 881-1249

Full-size pool table, accessories, pads, leather cover, \$1,900. 270-9266

Ion Audio IED01 electronic drum set, \$200. 783-4850
Stereo equipment, stand. 881-7967

Lane five-piece dark brown leather sectional sofa, chaise lounge, \$2,000. 348-8316

Vehicles

2008 Camry LE, AC, alloy wheels, CD, power seat, tan in/out, 21/31 MPG, \$17,900. 541-0627

2007 Sidney Outback 28' Fifth Wheel Camper, \$20,500. 679-2410

2006 Buell XB12 73xx, \$5,700. 412-3406

2005 Honda Element EX, 2WD, five speed, gray, 73k miles, \$11,500. 278-1974

2002 Prowler fifth wheel, slide out, sleeps 8, \$13,990. 721-1260

2002 Kawasaki four wheeler, 250cc, 2WD, red, \$2,000. 431-5950

2002 Regency Edition pontoon boat, 27 feet, 3.0 L I/O, custom drive on/off trailer. 918-576-4534

2001 Suzuki Intruder 805CC motorcycle, factory windshield,

leather saddlebags, 8,300 miles, \$4,500. 931-433-0744

2000 GMC Jimmy SLE, 2WD, four door, white, gray leather interior, 114k miles, \$4,950. 895-9589

1999 VW Jetta, four door, AC, automatic, AM/FM stereo, six-disc CD, 152k miles, \$3,500. 536-7219

1997 Lincoln Towncar, signature edition, loaded, \$3,600. 586-7424 or 744-4015

1966 Ford Mustang GT Coupe, black, black interior, engine/brakes fully restored, \$8,900. 520-3740

Wanted

Used all terrain/mud tires for old farm truck, 32x11.5x15. 603-4891

Chittim wood, any size, will pick up/cut/haul. 572-7396

Dumbbell weights, 10-20 pounds each. 777-8229

Full-blooded Blue Heeler puppy. 338-9840

Riding lawnmower. 881-7967

Ladies to host makeover or spa parties using all-natural, botanical products. 426-7862

FAA Inspection Authorization needed for annuals/maintenance on Cessna 210M hangered at Huntsville airport. 832-928-6066

Free

Male Pitbull puppy to good home, around 4 months old, pictures available. 334-233-0214 or daniellesnyder@yahoo.com

Three-hole bricks needed for projects, also plants, shrubs, monkey grass, anything for the yard. 345-9258

Stephen Doering receives National Space Club's Astronautics Engineer Award for contributions to spaceflight

By Craig Dunn

Stephen C. Doering, associate program manager for the Constellation Program at the Marshall Space Flight Center, was among 10 individuals and institutions recognized for their contributions to space science and technology at the National Space Club's 52nd Annual Goddard Memorial Dinner Awards on April 17, in Washington.

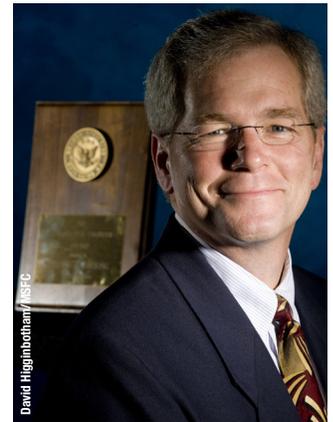
Doering received the Space Club's Astronautics Engineer Award for leadership as manager of the Extravehicular Activity Office at NASA's Johnson Space Center in Houston. He was recognized for providing exceptional service in support of spacewalks for the Space Shuttle Program and International Space Station. He also was recognized for his contributions in developing NASA's next generation of spacecraft that will carry astronauts on missions to the space station, the moon and beyond.

Doering is responsible for leading all Constellation efforts at the Marshall Center including program-level systems engineering and integration; safety and mission assurance; testing and verification; and service module and launch abort systems.

Nominated by colleagues and selected by a panel of judges, recipients are recognized for accomplishments in spaceflight, engineering, science, management and education.

The annual Goddard Dinner celebrates the anniversary of the first successful flight of a liquid-fueled rocket in 1926 by Dr. Robert H. Goddard, known as the father of U.S. rocketry. The event brings together 2,000 Space Club members representing government, industry and educational space community.

Dunn, an AI Signal Research Inc. employee, supports the Office of Strategic Analysis & Communications.



Stephen Doering

Launch *Continued from page 1*

Hubble Space Telescope," Cash said.

Veteran astronaut Scott Altman is commanding the final space shuttle mission to service Hubble, and retired Navy Capt. Gregory Johnson is the pilot. Mission specialists rounding out the crew are veteran spacewalkers John Grunsfeld and Mike Massimino and first-time space fliers Andrew Feustel, Michael Good and Megan McArthur.

During the 11-day mission, astronauts will perform five spacewalks to refurbish Hubble with state-of-the-art science

instruments. After the repair mission, the telescope's capabilities will be expanded and its lifetime extended through at least 2014.

NASA is providing continuous television and Internet coverage of Atlantis' mission. NASA Television features live mission events, daily mission status news conferences and 24-hour commentary. NASA TV is webcast at <http://www.nasa.gov/ntv>.

NASA's Web coverage of STS-125 includes current mission information, interactive features, news conference images, graphics and videos.

Mission coverage, including the latest NASA TV schedule, also is available on the main space shuttle Web site at <http://www.nasa.gov/shuttle>.

Live updates to the NASA News Twitter feed will be added throughout the shuttle mission and landing. To access the NASA News Twitter feed and other agency Twitter feeds, visit <http://www.nasa.gov/> collaborate.

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