

U.S. SPACE &



AMERICA IN SPACE
JANUARY 31, 2008
50TH ANNIVERSARY

ROCKET CENTER

HUNTSVILLE, ALABAMA • FIRST IN SPACE

2007 Annual Report



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Message from the CEO



Dr. Wernher von Braun is best known as the leader of the Saturn V Rocket Team that put mankind on the moon. However, his vision expanded far beyond engineering. He persuaded the Alabama Legislature to pass a law in 1965 establishing the museum known today as the U.S. Space & Rocket Center® (USSRC). Von Braun moved the Saturn V 500D/F to the museum before construction was completed in 1970, ensuring that the rocket would be on view to the public even as NASA continued putting men on the moon—a savvy public relations move.

Workforce development has been a prominent concern of government and industry in recent years. However, it is very possible that von Braun was concerned about this issue decades ago when the space industry was in its infancy. On his last visit to the USSRC in the mid-1970s, von Braun told then museum director Edward Buckbee that there really should be a children's camp established to promote mathematics and science. The first camp was held in June 1982, and today SPACE CAMP has alumni—many of them employed in the technical and aerospace industries—scattered across the globe.

During Fiscal Year 2007 (FY07), von Braun's visions—the rocket and SPACE CAMP—dominated events at the USSRC as the Saturn V rocket's new home neared completion and SPACE CAMP celebrated its 25th anniversary, bringing back old friends and welcoming in new ones.

Since he was a government employee for most of his career, we believe von Braun would have been delighted to know that the USSRC, through its Geospatial Technology and Applications Center (GTAC), made great progress this year in educating government agencies in Alabama in how to use spatial technologies to better manage their operations here on earth. Virtual Alabama, the program GTAC coordinates for the Alabama Department of Homeland Security (AL DHS), utilizes the Google Earth Fusion Algorithm and Enterprise Client. Google was so impressed with Virtual Alabama that company officials demonstrated it before Congress at a hearing in Washington, D.C., in the spring, and later the company awarded AL DHS the Google Enterprise Superstar Award for innovation. This is the first Google Enterprise Superstar Award given to a government agency.

In the following pages, we are happy to share further information about these highlights, along with audited financial numbers for FY07.

Sincerely,

Larry R. Capps
Chief Executive Officer
U.S. Space & Rocket Center



Larry Capps, USSRC CEO, is shown with ASSEC members (front row from left) Anne Marie Lacy, Lana Ritch, Irma Tuder, James Flinn III, Glenda Reitzell, Margie Cumbie, Jim Haney, and Joe Collazo; (back row from left) Waymon Burke, Art Stephenson, Roosevelt Lewis, Jr., Jimmy Ray Smith, Daniel Wilson, Albert Patterson III, and Todd Slyman. Not pictured are Dorothy Davidson, Winton Blount III, and Sidney White.

Alabama Space Science Exhibit Commission

The Alabama Space Science Exhibit Commission (ASSEC), the governing board for the USSRC, is composed of 18 members appointed by the Alabama Governor for eight-year terms.

Officers

Irma L. Tuder, Chair
Chairman, Analytical Services, Inc.,
Huntsville, AL

James L. Flinn III, Vice Chair and Vision and Plans Committee Chair

Executive-In Residence, College of Administrative Science, University of Alabama in Huntsville and former Deputy to the Commander of the U.S. Army Aviation and Missile Command, Huntsville, AL

Waymon E. Burke, Museum Committee Chair
History & Political Science Academic Division Chair, Calhoun Community College, Huntsville, AL

Roosevelt J. Lewis, Jr., Aerospace Programs Committee Chair
President/Chief Executive Officer, Air Tuskegee, Inc., Tuskegee, AL

Todd J. Slyman, Marketing Committee Chair
Providence Properties, LLC, Huntsville, AL

Sidney R. White, Finance Committee Chair
Certified Public Accountant/President, White & Fleming CPA, Huntsville, AL

Members

Winton Blount III,
Executive Officer of Blount Pittman & Associates, Montgomery, AL

Joe Collazo,
Vice President of Management Support, Collazo Enterprises, Inc., Huntsville, AL

Margie Cumbie, Huntsville, AL

Jim Haney, Huntsville, AL

Albert L. Patterson III, President, Navigator Development Group, Inc., Enterprise, AL

Dorothy Davidson,
Operation and Finance Manager, Davidson Properties & Management, Huntsville, AL

Anne Marie Lacy,
City Attorney, Madison, AL

Glenda Reitzell,
Huntsville, AL

Lana Ritch,
Huntsville, AL

Jimmy Ray Smith,
Certified Gemologist, Jimmy Smith Jewelers, Decatur, AL

Arthur G. Stephenson,
Sector Vice President, Northrop Grumman Space Technology

Daniel Wilson,
Managing Partner, Maynard, Cooper & Gale, P.C., Huntsville, AL

U.S. Space & Rocket Center Foundation

*Larry R. Capps, Chief Executive Officer
Jennifer Crozier, Executive Director*

Officers

*Joe Ritch, Chairman
Cynthia McCollum, Vice Chairman
Waymon E. Burke, Secretary/Treasurer*

Members

*Helen McAlpine
James L. Flinn III
Mark J. Lumer
William H. Stender, Jr.*

U.S. Space & Rocket Center

Executive Management

*Larry R. Capps, President/Chief
Executive Officer
Clif Broderick, Executive Vice
President/Chief Operating Officer*

Senior Vice President

Ralph Bryson, Aerospace Programs

Vice Presidents

*Holly Beach, Marketing
Brenda Carr, Advancement
Donnie Claxton, Finance/Controller
Vickie Henderson, Human Resources
Mike Flachbart, Aerospace Programs
Chris Johnson, Geospatial Training and
Application Center
Mike Kelly, Domestic and International
Licensing*

U.S. Space & Rocket Center

Employee Association

*Thomas Sparks, President
Yolanda Raysor, Vice President
Phillip Willingham, Secretary
Teresa Couch, Treasurer*

Saturn V Restoration

Executive Committee

*Larry R. Capps
Dorothy Davidson
Parker Griffith
Greg Gum
William H. Gurley
Jack Lee
William Lucas
Ralph Petroff
Peggy Sammon
Betty Schonrock
Sally Spencer
William H. Stender, Jr.*



USSRC Foundation members are (standing from left) James L. Flinn III, William H. Stender, Jr., Joe Ritch, Waymon Burke, Larry Capps, and Jennifer Crozier.



USSRC Management are (standing from left) Clif Broderick, Chris Johnson, Holly Beach, Larry Capps, Ralph Bryson, Mike Flachbart, Mike Kelly (seated) Vickie Henderson, Donnie Claxton, Brenda Carr, and Jennifer Crozier



USSRC Employee Association are (standing from left) Phillip Willingham, Thomas Sparks (seated) Teresa Couch, and Yolanda Raysor



Saturn V Restoration Executive Committee Committee members who worked to restore and house the Saturn V rocket include (front row from left) Betty Schonrock, Sally Spencer, and Peggy Sammon, (back row from left) Parker Griffith, William Lucas, William H. Gurley, Larry Capps, Ralph Petroff, and Bill Stender. Not pictured are Jack Lee, Dorothy Davidson, and Greg Gum.

25th Anniversary Celebrated Throughout 2007

Charter Members Inducted into SPACE CAMP® Hall of Fame

The USSRC marked the 25th Anniversary of SPACE CAMP by establishing a SPACE CAMP Hall of Fame to recognize individuals who have distinguished themselves in their professional careers or made outstanding contributions to the SPACE CAMP programs. The eight inaugural inductees were honored at a dinner held at the Von Braun Center on the 25th anniversary date, June 13, 2007. Actor William Shatner served as Master of Ceremonies for the event and NASA astronauts Dr. Story Musgrave and Jim Halsell spoke to a crowd of over 700 guests. Major sponsors for the dinner were ATK Launch Systems and Huntsville Coca-Cola Bottling Company.

Individuals could be nominated for the Hall of Fame through one of four categories. Those selected are as follows:

Founder:

Dr. Wernher von Braun
Edward Buckbee

Friend of SPACE CAMP:

Dr. Georg von Tiesenhausen
– von Braun Rocket Team member; worked at Marshall Space Flight Center (MSFC) and has been a volunteer lecturer for SPACE ACADEMY since 1987.

Dan Oates – helped coordinate and lead a SPACE CAMP program for the blind and visually impaired for the last 15 years.

Former SPACE CAMP Staff:

Amanda Stubblefield – currently working at Johnson Space Center; responsible for ISS astronaut crew training.

Dr. James Rice – currently works with Arizona State University and the *Spirit* and *Opportunity* Mars rover project.

Former SPACE CAMPER:

Dottie Metcalf-Lindenburger – former educator; recently completed astronaut training and awaiting assignment from NASA.

Penny J. Pettigrew – works at MSFC as the Ares I First Stage Requirements and Verification Team Lead for the Jacobs ESTS Group.



NASA Astronaut Dottie Metcalf-Lindenburger (SPACE ACADEMY 1990) receives her Hall of Fame award from U.S. Space & Rocket Center CEO Larry Capps (right) and William Shatner.



A special Hall of Fame Selection Committee was formed before the event to choose the inductees from this year's class of nominees. The nine committee members were as follows:

- Arthur Charles Meier II (committee co-chair)—retired Deputy Director of the Missile Research Development and Engineering Center of the Missile Command;
- Mike Flachbart (committee co-chair)—SPACE CAMP alumnus and current Vice President of Aerospace Programs for the USSRC;
- Betsy Rogers—2003 National Teacher of the Year and SPACE CAMP educator alumnus;
- Axel Roth—retired Marshall Space Flight Center employee who worked on Apollo, Skylab, Spacelab, and Space Station programs and the son of Ludwig Roth, one of the original von Braun team members;
- Charity Nehls—SPACE CAMP alumnus and currently Recruitment Manager at the USSRC;
- Barry Holman—engineer with the Rolls-Royce Corporation in Indianapolis, Indiana; he and his wife,

- Sally, have established a memorial SPACE CAMP scholarship in their son, Tommy's, name;
- Veronique Paquette—2003 Teacher of the Year for Washington and former staff member for International SPACE CAMP;
- Hillary Dunham—SPACE CAMP alumnus and former USSRC employee who worked as a camp counselor, in the education and corporate camp departments, and on the sales team before taking a job as Regional Program Manager for the National Inventors Hall of Fame; and
- Christopher Key—SPACE CAMP and SPACE ACADEMY alumnus, former AVIATION CHALLENGE staff member, a private pilot, and currently employed as a consultant with Pricewaterhouse Coopers' Advisory Services.

Sponsors Support the Hall of Fame

The SPACE CAMP Hall of Fame not only proved to be a huge evening for the USSRC, but also created an exciting buzz within the Huntsville community. Event sponsors included:

Enterprise Level



Huntsville
Coca-Cola
Bottling Co.

Events Engage the Community in Anniversary Celebration

As part of the SPACE CAMP 25th Anniversary celebration, a variety of public events featuring books, stamps, and discussions on space exploration, were held:

Panel Discussion

The 25th Anniversary summer events kicked off on May 17 with a panel discussion of Dr. Wernher von Braun's, *Project Mars: A Technical Tale*. The panel discussion was hosted by Chase Masterson, an actress in *Star Trek: Of Gods and Men* and *Star Trek: Deep Space Nine*, who was joined by movie director James Kerwin. Other panelists included Austin Boyd, retired Navy pilot, NASA astronaut candidate finalist, and author, and Steve Cook, Director of the Exploration Launch Projects Office at NASA's Marshall Space Flight Center. The evening began with refreshments in the USSRC museum; continued with an autograph session where panel members signed books, CDs, and posters; and concluded with a thought-provoking discussion between the panel and audience members.

Postal Cache

The U.S. Post Office unveiled a special 25th anniversary postal cache, which featured a custom cancellation at the USSRC, along with new Star Wars stamps (one of 15 pictured). For a limited time, this collector's piece was available to the public for purchase at the USSRC.

Thursday Nights in the Museum

The USSRC presented special speakers from across the United States for *Thursday Nights in the Museum* events, including USN (Ret.) Commander Trish Beckman and Major Jill A. Long, former Blackhawk helicopter pilot Mike Durant, acrobatic pilot Jamail Larkins, and former NASA astronauts Bob Springer, Dr. Story Musgrave, and Robert "Hoot" Gibson. Lockheed Martin sponsored the events which were open to the public each Thursday night from June 14 through August 2, 2007.



Astronauts Present Flags to the USSRC

Crewmembers from STS-116 visited the USSRC on March 6, 2007, to present 249 SPACE CAMP 25th Anniversary flags that flew on the December 2006 shuttle mission. Commander Mark Polansky, (shown left) Robert Curbeam (seated), Nicholas Patrick, and Christer Fuglesang presented the flags to USSRC CEO Larry Capps (center) and to Edward O. Buckbee (right), who as USSRC Director established SPACE CAMP in 1982. The presentation of these flags, many of which were framed and given as gifts to special SPACE CAMP friends (see photo on page 6), officially kicked off SPACE CAMP's 25th Anniversary. Alabama Space Science Exhibit Commission (ASSEC) member Daniel Wilson, Managing Partner of Maynard, Cooper, Gale, Inc., provided funding to produce and frame the flags.

Dottie Metcalf-Lindenberger (H.O.F. Inductee)

- Astronaut Educator Class 2004, currently awaiting flight assignment
- SPACE CAMP trainee 1990

Dottie Metcalf-Lindenberger attended SPACE CAMP at age 14, and because of her life-changing experience, chose a career as a teacher, a career that would allow her to share her love of science with others. One day while teaching at Hudson's Bay High School in Vancouver, Washington, a student asked a question that sent Dottie to the NASA Web site. A call for teachers willing to enter the astronaut corps had just been posted, and Dottie applied. She became the youngest member of the Educator Astronaut Candidate Class of 2004 and is currently awaiting flight assignment. She lives in Houston, Texas, with her husband and daughter.

Endeavour Level

Philip Dotts, Public FA, Inc.
Redstone Federal Credit Union
Intuitive Research & Technology Corporation
S³, Inc.
Huntsville Marriott
Maynard, Cooper, & Gale PC
Theatrical Lighting Systems, Inc.
Bill Stender - Pinnacle Technologies, Inc.
The Huntsville Times

Discovery Level

COLSA

Pathfinder Level
Air Tuskegee
Applied Data Trends
AT&T
BAE
Ball Aerospace & Technologies Corporation
Bradley, Arant, Rose & White LLP

Pathfinder Level continued...

Bridge Street Town Centre
Camber Corporation
CAS
City of Huntsville
Computer Sciences Corporation
Conservation Solutions, Inc.
Cook's Pest Control
Davidson Technologies, Inc.
Ed Buckbee & Associates

500,000th Camper Wants to Be an Astronaut

SPACE CAMP celebrated its 500,000th trainee on Friday, June 15, 2007. The trainee, 10-year-old Samantha Rice of Port St. Lucie, Florida, said she has never imagined doing anything else with her life other than being an astronaut. She attended SPACE CAMP on a scholarship from the Thomas Holman Memorial Scholarship Fund. Samantha's teachers at Manatee Elementary describe her as a positive and enthusiastic student who demonstrates excitement for subjects such as science and math, but Samantha says her favorite thing "ever" is the Space Shuttle. As SPACE CAMP's 500,000th trainee, Samantha received a free SPACE CAMP tuition, as well as one of the SPACE CAMP 25th anniversary flags flown aboard the Space Shuttle Discovery earlier in 2007. She is shown with Huntsville Mayor Loretta Spencer, USSRC CEO Larry Capps (center), and retired astronaut, Dr. Story Musgrave.



X-Camp Added to Summer Schedule

The 2007 year marked the beginning of the first completely new camp program at the USSRC since the 1990 opening of AVIATION CHALLENGE. X-Camp, a leadership training course centered on outdoor challenges and activities, was born of the wildly popular Area-51 – Leadership Reaction Course activities that were added to all camp programs in 2006. And, like the new course and challenge elements of Area 51, X-Camp proved to be a favorite among trainees.

This eight-day leadership training program's activities are based on 15 core Boy Scout merit badge requirements. However, there is no requirement that participants be Boy Scouts –

or even boys, for that matter. X-Camp gained the devotion of girls and boys alike.

X-Camp puts trainees through the paces as they learn the principles of open-face rock climbing, canoeing, archery, backpacking, and hiking. While the activities are the draw for the participants, it is the strong focus on leadership and character development that bonds them and leaves them asking for more.

The three prototype sessions offered in 2007 were filled to capacity. And, at the time of this printing, X-Camp bookings were strong for 2008.



Laura Boyle was selected as the SPACE CAMP Number One Fan. Laura's entry in the Number 1 Fan competition was a PowerPoint presentation that was both humorous and thought-provoking as she pointed out how the camp experience had increased her self-confidence. This resident of Canada is shown with fellow Canadian, William Shatner and USSRC CEO Larry Capps.



New Simulations Software Invigorates Camp

AVIATION CHALLENGE (AC) has been a favorite among campers for the past 16 years. With its focus on jet fighter pilot training and leadership, it offers students interested in math, science, and technology a different learning environment than that of SPACE CAMP, where much of the training occurs indoors. In the AC program, indoor simulator training is coupled with outdoor land survival exercises.

This year, AC was treated to a total overhaul. The flight simulator portion of the program was rocketed into the 21st Century with a complete software upgrade that enhanced the realism in not only the aircraft, but also in the flight environments and accessories. But the upgrade did not just add to the fun of AC—training capabilities were also enhanced through—“replay” options within the software package that allowed staff to help trainees learn from past mistakes.

The USSRC partnered with XPlane and the University of Alabama in Huntsville to develop and implement the software upgrade that supports all camp programs, including the corporate curriculum designed for business clients. Now trainees at AC take-off and land at real-world airports and fly over real-world cities in both the U.S. and abroad. The system also improved the graphics and aircraft capabilities. AC staff can choose for trainees to fly some seven different aircraft ranging from the T-38 to the AC130 Gunship, not to mention foreign aircraft such as the Soviet SU-27. Each aircraft handles and responds exactly as does the actual aircraft. Additionally, AC trainees are able to take-off and land on a fully functioning simulated aircraft carrier and take aim at artificially intelligent land and air targets.

This year's XPlane/UAH simulations package upgrade created a more realistic AC experience to provide the foundation for development of increasingly sophisticated programs for camp participants and for the international market that is growing through efforts of



the USSRC Licensing Department (see story on page 20.) Evaluations from this year's trainees showed that participants were more than positive about the improvements...they were thrilled! And because the upgrade has many opportunities for further expansion and utilization, trainees can look forward to a nearly inexhaustible array of flight and function options in the upcoming years.

Construction Captivates Community's Attention

The USSRC hosted 476,835 museum and camp visitors during FY07. However, the biggest show at the USSRC this year was outside of the Center's traditional public outreach—it was the construction of the massive Saturn V complex. It drew the attention of the thousands traveling I-565 who watched the steel supports rise and the building take form.

From comments heard throughout the community, it is clear that Huntsville-area residents are proud to take ownership of the new Saturn V building

and were eagerly awaiting the grand opening gala held January 31, 2008. This dinner culminated a 10-day, area-wide celebration sponsored by the Chamber of Commerce of Huntsville/Madison County and the Huntsville-Madison County Convention and Visitors Bureau in conjunction with the USSRC. In addition to officially opening the new facility, the event celebrated the 50th anniversary of the launch of Explorer I. This satellite launched into space on January 31, 1958, aboard a Jupiter C rocket developed in Huntsville, putting America in the Space Race.

Davidson Center for Space Exploration

Already known as the largest museum in the world devoted exclusively to space artifacts, the USSRC took a gigantic leap forward with the addition of the Saturn V and Federal Transit Administration complex that totals 68,200 square feet. The building houses the new ticketing area for the museum complex, a 360-seat auditorium equipped with 3-D projection equipment, and more than 42,000 of exhibit space in the gallery where the Saturn V is displayed 10 feet above the floor at its lowest point.

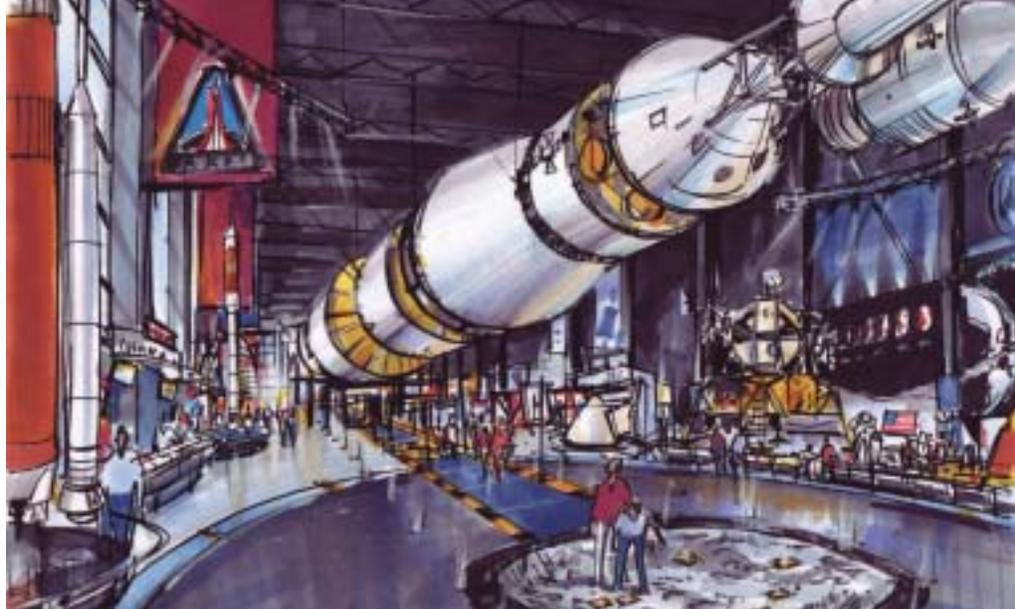
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In giving her donation in honor of Alabama engineers, Dorothy Davidson defined Alabamians as those who chose the State as their home, as well as those who like her husband Julian, a Walker County native and Auburn graduate, were born or educated here. The Davidsons are shown on the staircase leading from the ticket area into the Saturn V gallery. A mural copied from a painting of the Apollo 11 launch done by Paul Calle is used as the backdrop in the foyer, setting the propulsion theme for the building.

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Alabama Space Science Exhibit Commission member Dorothy Davidson, who also serves on the Saturn V Restoration Executive Committee, took the \$2 million naming opportunity for the building that is now called the *Davidson Center for Space Exploration*. This generous contribution—the largest private donation ever given to the USSRC—was announced in May 2007. Mrs. Davidson gave the contribution in honor of her husband, Dr. Julian Davidson, who worked in the early development of missiles, and in honor of the thousands of other Alabama engineers who developed the missile/rocketry technology from which the Saturn V evolved.



Alabama's Largest Flag Flying at the USSRC

Lee Sentell, Director of the Alabama Bureau of Tourism and Travel, selected the Davidson Center for Space Exploration to be the first location to display a gigantic Alabama state flag. The flag, which measures 30 feet by 60 feet, is mounted on a 140-foot flagpole that stands alongside the U.S. flag. The flags, which are located on the north side of the Davidson Center in full view of I-565, are the tallest in the Madison County area.



Amanda Stubblefield (H.O.F. Inductee)

- Astronaut and Cosmonaut trainer, Johnson Space Center in Houston, Texas
- 1987 SPACE CAMP trainee and 1995-1997 AVIATION CHALLENGE counselor

Amanda Stubblefield attended SPACE CAMP in the fall of 1987 and returned to SPACE ACADEMY the very next year. Amanda returned again as an AVIATION CHALLENGE counselor during the summers of 1995-1997, graduating from Vanderbilt University in 1997. Amanda began work for Teledyne Brown Engineering in 2001 and was transferred to Johnson Space Center in 2002 to work in the Space Station Training Facility. Amanda is employed as an ISS Environmental Control and Life Support Systems (ECLSS) Instructor for United Space Alliance. Amanda lives in Houston, Texas, and is pursuing a Master of Aeronautical Science through Embry-Riddle Aeronautical University.

Interactive, Educational Exhibits planned for the Davidson Center

With the addition of the Davidson Center for Space Exploration, the USSRC has more than 100,000 square feet of exhibit space. The Davidson Center exhibit plan showcases the USSRC's extensive collection of Apollo artifacts and couples this historic hardware with interactive computer kiosks designed to teach scientific concepts and to fuel curiosity about exploration of the moon and Mars.

The USSRC is the Official Visitor Information Center for Marshall Space Flight Center (MSFC) and will use this new space to educate the public—adults and students—about the work being done at Marshall, particularly in the area of propulsion where MSFC has made significant contributions in the Apollo and shuttle programs and is again on the forefront with the Ares launch vehicles.

Tom Fricker and Peter Radetsky, an exhibition design and development team from California (designers of the Clear Channel Communications exhibit *Lost Spacecraft: Liberty Bell 7 Recovered* and of space exhibits at the Astronauts Hall of Fame in Florida and the Kansas Cosmosphere), have developed a comprehensive museum plan for the Davidson Center that is composed of 18 modules. Those modules along the north wall of the building (the side facing I-565) build the Saturn V, stage by stage, while teaching about propulsion and aerodynamic principles. The western wall features a stage and a large screen for speakers and educational presentations,

and the south wall is devoted to each of the Apollo missions. Implementing the entire plan is expected to cost \$5.5 million; however, the exhibit modules can be added in phases, as funding permits.

The Rocket Rolls

Construction on the *Davidson Center* progressed to the point that the rocket could be transported to the Saturn V gallery in July. A "launch" ceremony, called *Rocket Roll*, was held July 10, 2007, to commemorate moving the rocket from the outdoor exhibit area it had occupied since 1969. Nearly 300 citizens, including many veterans who worked on the Saturn V, gathered for the send-off that was sponsored by Accenture. Marshall Space Flight Center coordinated the move, employing NASA contractor EG&G (a division of URS headquartered in Gaithersburg, MD), based in Huntsville, and Mammoet USA, a Dutch company that specializes in moving large objects. Four days later, all three stages were inside the building where the first and second stages are displayed on pedestals and the third stage, instrument unit, and command module are hung from the 65-foot-high ceiling. Conservation Solutions, Inc., the restoration group selected in 2005 to restore the rocket, completed the finishing work and applied the decals to the Saturn V in January 2008.



Boeing Takes Naming Opportunity for SPACEDOME IMAX®

The Boeing Company took the \$315,000 naming opportunity for the SPACEDOME IMAX® and paid for the refurbishment of the 25-year-old theater. Renovations included adding closed caption equipment, upgrading the IMAX® projector lens, installing new (and wider) theater seats, repairing and repainting the screen, adding a tile floor in the lobby, and installing an electronic menu board in the concession stand. In October, the new lobby sign went up: SPACEDOME IMAX® Sponsored by Boeing.



Representative Bud Cramer, of Alabama's Fifth Congressional District, spoke to those attending the unveiling. He is shown (from left) with Gina DeSimone, Boeing Vice President Huntsville; Irma Tuder, chair of the Alabama Space Science Exhibit Commission; and Jim Chilton, Vice President, Boeing Exploration Launch Systems.



Fourth Annual Saturn/Apollo Reunion Draws 800

While saving and housing the Saturn V 500D/F have been goals of the restoration project, celebrating the legacy of the rocket and the people who built it also has been an important objective. At the 2007 reunion on Friday, July 13, more than 800 people gathered to celebrate the rocket's move and to hear astronauts Jim Halsell, Walter Cunningham, and Owen Garriott;

Dr. George Mueller, who served as Associate Administrator for the NASA Office of Manned Space Flight, 1963-69; and Steve Cook, Director of Exploration Launch Projects at Marshall Space Flight Center. Pratt & Whitney Rocketdyne took the title sponsorship for the event, and SAIC and Halsey Foodservice were co-sponsors. Saturn V pioneers gathered for a photograph just before the evening concluded with fireworks.



*4th Annual Saturn/Apollo Reunion
July 13, 2007
U.S. Space & Rocket Center*

Apollo Courtyard Features Donor Bricks

The standing Saturn V rocket, a favorite Huntsville landmark, centers a permanent exhibit area in the courtyard entrance to the Davidson Center for Space Exploration. This area features the Apollo missions and is paved with bricks purchased as part of the Saturn V Restoration Project. The initial order of bricks that were installed in time for the grand opening totaled 747. Among the bricks were those purchased by the West Point Society of the Tennessee Valley to commemorate West Point alumni who worked in the space program. Art Meier (shown left), of the West Point Society, presented a check for \$3,450 to USSRC CEO Larry Capps for the bricks. An eight-by-eight brick reads *West Point Pioneers In Space Exploration*. Surrounding bricks are inscribed with the following names: Frank Borman '50, Buzz Aldrin '51, Ed White '52, Michael Collins '52, David Scott '54, James Adamson '69, Alfred Worden '55, Donald Peterson '55, Richard Mullane '67, Sherwood Spring '67, William McArthur '73, Michael Clifford '74, Pat Forrester '79, Charles Gemar '79, Jeffrey Williams '80, Douglas Wheelock '83, Tim Kopra '85, Shane Kimbrough '89, Holger N. Toftoy '26, August Schomburg '31, John A. Barclay '31, Francis McMorro'w '33, Edward Mohlere '36, John G. Zierdt '37, John Nickerson '38, Robert M. Pearce '44, Rocco Petrone '46, John P. Jones '53, Jay W. Gould '54, and Edward Olivares '57. Both Meier and Capps are West Point graduates who worked in missile defense. Bricks continue to be available and will be placed in the courtyard annually.

Dr. James Rice (H.O.F. Inductee)

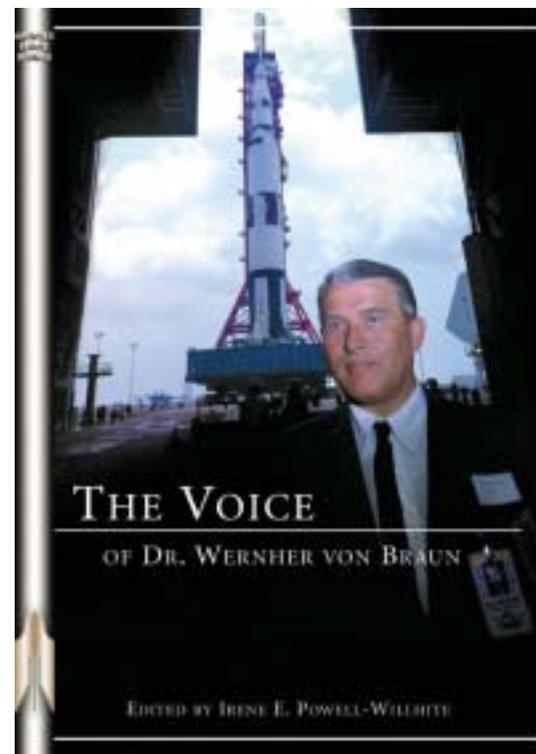
- Science Team Member with Mars Exploration Rovers, *Spirit* and *Opportunity*
 - 1985 SPACE CAMP counselor
- Dr. James Rice was born in Tuscaloosa, Alabama, and always knew that he wanted to pursue space exploration. Rice's parents supported his drive and took him to Marshall Space Flight Center to see the Saturn V rocket. Years later in 1984, Rice received his Bachelor of Science degree in Geology from the University of Alabama and moved to Huntsville to be closer to the manned space flight program. In Huntsville, Rice served as a SPACE CAMP counselor in 1985 and went on to Northeast Louisiana University for his Master of Science degree. Rice received an astrogeology internship at the U.S. Geological Survey in Flagstaff, Arizona, obtaining his Ph.D. from Arizona State University. Dr. Rice is employed at the Mars Space Flight Facility at Arizona State University as a Science Team Member with the Mars Exploration Rovers, *Spirit* and *Opportunity*.



The Voice of Dr. Wernher von Braun Goes on Sale

For the second year, the USSRC has released a book compiled from documents left to the Center by Dr. Wernher von Braun. USSRC Archivist and Curator, Irene Willhite, read through more than 500 speeches given by Dr. von Braun from 1947 to 1976 to produce *The Voice of Dr. Wernher von Braun*. The anthology, published by Apogee Books, presents 47 speeches that cover topics including education, the Cold War, religion, and the space program.

This is the second book Willhite has produced from the von Braun's papers. *Project Mars, A Technical Tale*, a fictional story written by von Braun in the 1940s, was released last year. Both books are available in the USSRC gift shop. Proceeds from the sale of these books benefit the USSRC.





Virtual Alabama Commands National Attention

The Geospatial Training Application Center (GTAC) at the USSRC teaches practical uses for the geospatial technologies. In past years, GTAC has worked with farmers through a USDA grant teaching them how satellite technology can improve farming practices, crop yield, and revenue. In recent months, the GTAC focus has been on helping government agencies improve services and increase efficiency through a program called Virtual Alabama.

GTAC coordinates Virtual Alabama through a contract with the Alabama Department of Homeland Security (AL DHS). This program utilizes the Google technology through the Earth Fusion Algorithm and Enterprise Client and places various types of data on a common map. The data is contributed by numerous government entities including those involved with emergency management, city and county government, economic development/planning, natural resource management, environmental agencies, law enforcement and forensics, agriculture, and transportation. Placing the data on a shared map provides a common operating picture, levels the playing field among all counties, and also allows all agencies to better coordinate their duties, particularly in times of emergencies or disasters such as tornadoes and hurricanes.

Google was so impressed with Virtual Alabama that company officials demonstrated it at a presentation before the U.S. Congress in Washington, D.C., in spring 2007, and later the company awarded AL DHS the Google Enterprise Superstar Award for innovation. This is the first Google

Enterprise Superstar Award given to a government agency and the first to be given in the geo category.

Governor Bob Riley joined with Google Earth Chief Technology Officer Michael T. Jones and AL DHS Director Jim Walker to demonstrate the capabilities of Virtual Alabama in a press conference held in Montgomery on November 28, 2007. At the close of FY07, Virtual Alabama had over 1,500 users in 67 Alabama counties. Virtual Alabama currently serves users in over 35 state agencies, 34 federal agencies, 11 state universities, and 7 regional development councils. The user base is broken down into the following broad categories: 30 percent law enforcement; 15 percent emergency management agencies; 8 percent transportation; 7 percent environmental; 5 percent revenue officials; and approximately 35 percent other state and local government entities.

The U.S. Department of Homeland Security is seeking ways to implement the program nationwide. After seeing a demonstration of Virtual Alabama, the State of Louisiana asked for permission to copy the concept for their state and began implementation during FY07. Mississippi, Kentucky, Oklahoma, Texas, Nebraska, Indiana, Arizona, Florida, and New York City have also expressed interest in the program.

VIPS Tour USSRC

As noted in the articles on the 25th anniversary of SPACE CAMP and the activities surrounding the Saturn V Restoration Project, many astronauts, aviators, authors, and actors participated in events this year. However, a number of distinguished guests simply dropped in during the year to learn about the Center and to talk with students participating in camp programs.



Helen Greiner, co-founder and chair of iRobot, visited when she was in town in October 2006. Author Homer Hickam and his wife, Linda, brought their friend, Anousheh Ansari (shown above), the first female to privately travel to the International Space Station (ISS) to visit in November 2006. California Institute of Technology Professor Dr. Michael Brown spoke to students in March 2007. Brown, a Huntsville native, is best known for his discovery of Eris, the largest object found in the solar system in 150 years, and the object which led to the debate and eventual demotion of Pluto from a "real" planet to a dwarf planet. Representative Robert Aderholt of Alabama's Fourth District brought Graham Stuart, a member of the British Parliament representing Beverley and Holderness, rural districts in East Yorkshire. A member of the German Parliament, Alexander Bonde, also visited.

Dan Oates (H.O.F. Inductee)

- Educational Outreach Specialist, West Virginia School for the Deaf & Blind
- 1989-2007 SPACE CAMP for Interested Visually Impaired Students (SCI-VIS) coordinator

For the past eighteen years, Dan Oates has been bringing visually impaired students to SPACE CAMP for Interested Visually Impaired Students (SCI-VIS) and immersing them in hands-on, creative experiences that encourage teamwork and confidence. Employed at the West Virginia School for the Deaf and Blind, Oates serves as the Educational Outreach Specialist, as well as a team member for the Children's Vision Rehabilitation Project (CVRP), a traveling low vision clinic. Oates holds a Master's degree in Education, as well as national certifications as an orientation and mobility instructor and a low vision therapist.

Section 3 – Financial Highlights



Superior Bank

joined the corporate partners program during FY07 contributing \$15,000 to the Saturn V Restoration Project. Superior CEO Stan Bailey (left) is shown with USSRC CEO Larry Capps who is receiving the check from Mary Hartley and Vernon Bice of Superior's Huntsville office.



Northrop Grumman's

corporate lead executive in Huntsville, Dan Montgomery (back row at center), is shown with students from across the U.S. who attended camp in August, courtesy of the company's support of the USSRC scholarship program. Northrop Grumman contributed \$30,000 to the scholarship program this year, covering tuition for these students and for five visually impaired students who attended SPACE CAMP for Interested Visually Impaired Students (SCI-VIS), a very special camp held annually in September.



Aerojet

has been sponsoring scholarship students for 23 years. Mike Roddy is shown presenting the 2007 check for \$2,000 from the company's GenCorp Foundation to USSRC Foundation Executive Director Jennifer Crozier. Also shown are Advancement Vice President Brenda Carr and USSRC CEO Larry Capps.



Qualis Corporation

has been sponsoring the NASA Stars Program at the USSRC for five years. Company President and Chief Executive Officer Elizabeth Morard is shown presenting \$5,000 for FY07 to USSRC CEO Larry Capps (left) Thad Mauldin (right) is a former USSRC Director who now works at Qualis.

U.S. Space & Rocket Center

SELECTED FINANCIAL AND OPERATING DATA

in millions

Fiscal year ended	2008 (Budget)	2007 (Actual)	2006 (Actual)
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Revenues:

Camp Programs	\$15.07	\$13.38	\$12.84
Museum	10.05	9.09	7.73
Advancement/GTAC	5.86	11.91	3.49
Other	3.44	2.81	1.66

Total Revenue	\$34.42	\$37.19	\$25.72
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Expenses:

Personnel Related	12.83	12.72	11.80
Facilities	2.56	2.37	2.55
Cost of Goods	2.78	2.37	2.27
Services	1.09	1.08	1.22
Program Related	1.94	2.16	1.59
Marketing	1.10	0.75	0.56
Travel	0.29	0.40	0.35
Finance	1.52	1.57	1.48
Other	0.56	0.73	0.86
Depreciation	2.83	2.28	2.30

Total Expenses	\$27.50	\$26.43	\$24.98
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Net Income	\$6.92	\$10.76	\$0.74
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U.S. Space & Rocket Center Foundation

SELECTED FINANCIAL AND OPERATING DATA

in millions

Fiscal year ended	2007
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Revenues:

Scholarship/Sponsorship Donations	0.93
25th Anniversary Donations	0.10
50th Anniversary-Davidson Center Gala	0.16
Grants	0.07
Saturn V Donations	2.27
IMAX - Naming	0.32

Total Revenue	3.85
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Donation Transfers:

Grants	0.07
Scholarship/Sponsorship Donations	1.08
Davidson Center-Grand Opening Sponsorship	0.16
IMAX - Naming	0.32
Saturn V Donations	2.16

Total Transfers to U.S. Space & Rocket	3.79
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Expenses:

Fundraising Expenses	0.02
Travel Expense (includes program travel)	0.01
Write-off of Pledge	0.04
Outside Services - Commissions	0.01

Total Expenses and Transfers	3.87
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Change in Net Assets	(0.02)
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Volunteers donated 1,124 hours of time to activities at the USSRC during FY07.

U.S. Space & Rocket Center Foundation

SPACE CAMP PROGRAMS SCHOLARSHIPS

in thousands

Fiscal year ended

2007

Honeywell International	503.4
The Boeing Company	155.5
Aerospace Education Foundation	45.5
ASMDA	30.8
Northrop Grumman Foundation	30.0
Central Vision Solutions	17.6
Sulzberger Family	17.3
University of Illinois	15.3
Army Community Services	11.2
Military Child Education Coalition	10.3
Delta Gamma Foundation	8.1
Rockwell Collins	6.6
Mathcounts Foundation	6.3
Qualis Corporation	5.0
American Institute of Aeronautics & Astronautic	3.5
Rockwell Automation	3.3
Alaska Air Show	2.1
Bettye A. Wehrli-Space Adventures	2.1
Alabama Civil Justice Foundation, Inc.	2.0
GenCorp Foundation	2.0
United Space Alliance	2.0
Honeywell Hometown Solutions	1.2
Joyce M. Wilbourn	1.1
Lockheed Martin Mechanisms Education Association	1.1
Juanita Sales	0.8
Nancy A. Hulverson	0.8
C.I.K Enterprises, LLC	0.6
Michael and Rhonda Winter	0.6
BASF Catalysts LLC (formerly Engelhard)	0.5
Ellen Boyle	0.5
Julian and Dorothy Davidson	0.5
Karen E. Holman	0.5
Quality Assurance and Risk Management Services, Inc.	0.5

25th ANNIVERSARY OF SPACE CAMP

ATK Launch Systems Group	11.5
Coca-Cola Bottling Co. Huntsville	10.0
Lockheed Martin	10.0
System Studies & Simulation, Inc.	6.5
Balch & Bingham LLP	5.0
Intuitive Research & Technology Corporation	5.0
Philip Dotts - Public FA, Inc.	5.0
Redstone Federal Credit Union	5.0
William H. Stender, Jr.	5.0
Interform, Inc.	3.0
COLSA CORPORATION	2.5
AT&T	1.5
Applied Data Trends	1.5
BAE Systems	1.5
Ball Aerospace & Technologies Corp.	1.5
Bradley Arant Rose & White LLP	1.5
Bridge Street	1.5
Camber Corporation	1.5
Chamber of Commerce of Huntsville	1.5
City of Huntsville	1.5
Computer Sciences Corporation - Defense	1.5
Conservation Solutions, Inc.	1.5
Cooks Pest Control	1.5
First Commercial Bank	1.5
Goodwyn Mills and Cawood, Inc.	1.5
Gray Research, Inc.	1.5
Huntsville Broadcast Corporation - WAAY-TV	1.5
InfoPro Corporation	1.5
IronSclad	1.5

J.F. Drake State Technical College	1.5
John C. Calhoun State Community College	1.5
Madison County Convention and Visitors Bureau	1.5
Raytheon Missile Systems	1.5
Renasant Bank	1.5
Science Applications International Corporation	1.5
Sirote & Permutt PC	1.5
The Boeing Company	1.5
Turner Universal Construction Co. Inc.	1.5
UAH	1.5
Ed Buckbee & Associates	1.4
Air Tuskegee	1.2
Elizabeth Morard	0.9
Halsey Food Service	0.8
J. Smith Lanier & Co., Inc.	0.8
Colonial Bank	0.6
Glenda W. Reitzell	0.6
Putman Blackwell & Co. CPA	0.6
Steve Hill	0.6
Waymon, Jan, and Jason Burke	0.6
WZDX-Fox54	0.6
Magna Vista Group Inc	0.6
Young Boozer Family Foundation	0.5

BE READY CAMP

Toyota Motor Engineering & Mfg. North America	20.0
FedEx Corporation	45.0

IMAX THEATER SPONSOR

The Boeing Company	315.0
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INTERNATIONAL SPACE CAMP

Toyota Motor Engineering & Mfg. North America	20.0
Council of Chief State School Officers	28.1

REDSTONE ROCKET GERMAN MEMORIAL PLAQUE

MSFC Retiree Association	2.5
Ellery B. May Jr.	2.2
F. Brooks Moore	2.0
James L. Splawn	1.0
Other Retirees	0.6

SATURN V PROJECT

Julian and Dorothy Davidson	2,000.0
City of Huntsville	150.0
State of Alabama - Specialty Tag Revenue	137.0
State of Alabama - Flag Pole	61.0
Gray Research, Inc.	15.0
Superior Bank	15.0
Accenture	13.8
Pratt & Whitney Rocketdyne, Inc.	10.0
Turner Universal Construction Co. Inc.	10.0
SPARTA, Inc.	6.0
Science Applications International Corporation	5.0
AT&T	5.0
Compass Bank	5.0
Mary Jane & John Will Caylor	5.0
Waymon, Jan, and Jason Burke	5.0
West Point Society of the Tennessee Valley	3.3
City of Madison	2.5
Huntsville-Madison County Legislative Office	2.5
Bill Stender	2.4
APT Research, Inc.	1.5
Sidney Ellis	1.5
Kenneth Mitchell	1.1
Frances G. Moore	1.0
Orion Propulsion - Tim Pickins	1.0
Barbara S. Buice	0.9

Marketing

The Marketing Department coordinated the Center's 25th anniversary celebration with Marketing Vice President Holly Beach chairing the Center's 25th anniversary committee. Staff members from all departments within the Center participated on the committee. However, the 25th anniversary was only one of many activities demanding marketing expertise.

National Promotions Further Brand Awareness

SPACE CAMP completed an exciting national promotion with LEGO Mars Mission and CARTOON NETWORK during FY07. As a part of this partnership, SPACE CAMP appeared in the July issue of LEGO magazine, which has an annual readership of approximately 1.5 million children, and shared advertising space with LEGO in the August issue of *Boys' Life* magazine.



SPACE CAMP shared website links with LEGO, promoting a space game for kids called *Mars Mission*. From the SPACE CAMP website, children accessed *Mars Mission* to play the first three levels of *Crystalien Conflict*.

SPACE CAMP was part of a national sweepstakes promotion on CARTOON NETWORK that ran during the week of August 5 and offered 10 trips to Parent/Child SPACE CAMP sessions as prizes. Participants entered the sweepstakes by calling in to CARTOON NETWORK during *Toonami*, the channel's highest-rated Saturday evening block of cartoons. (CARTOON NETWORK and the logo are trademarks of the Cartoon Network.)



Other national promotions in FY07:

- **KB Toys (Spring 2007)**
—This national promotion was timed around the second largest toy buying season, Easter, and supported the 25th Anniversary of SPACE CAMP campaign.
- **History Channel (Summer 2007)**
—“Get Your Mind Blown” partnership promoted the History Channel's newest 13-part series, *The Universe*. This partnership was promoted on both the USSRC and History Channel websites and onsite at the USSRC with a kiosk.
- **Fizzy Fruit (Summer 2007)**
—National new product launch done in conjunction with the film “Meet the Robinsons” featured SPACE CAMP on the company's children's fruit product label, on the grocery store shelf point-of-sale, and on the website sweepstakes.

National Media Feature USSRC

Media Relations Manager Al Whitaker, along with SPACE CAMP staff Marcia Lindstrom, Kim Dickerson, and Steve Ford, appeared on the nationally-televised *Fox & Friends* on December 7, 2006, to promote SPACE CAMP's 25th anniversary. The group also demonstrated one of the facility's multi-axis trainers, an Apollo-era space suit, and a moon buggy that competed in the NASA Great Moon Buggy Race. The USSRC appearance on the New York-based program coincided with the launch of the Space Shuttle Discovery on December 9.

In recent months, USSRC media staff has hosted news crews from local and national stations such as *CNN*, *NBC*, *The Daily Show with Jon Stewart*, *The David Letterman Show*, *Fox News*, *ESPN*, *Time Magazine*, *USA Today*, *The Atlanta Journal Constitution*, and *The Associated Press* in the promotion of the Davidson Center for Space Exploration and its upcoming exhibits.

USSRC Foundation/Advancement

Charitable donations to the U.S. Space & Rocket Center Foundation enabled students and teachers to attend camp, funded museum projects—including the

restoration and housing of the Saturn V rocket—and paid for the renovation of the Center's IMAX[®] theater that celebrated its 25th anniversary in December 2007.

Scholarship & Sponsorship Programs Grow

The USSRC annually holds a scholarship competition in the fall. During FY07, 427 students from across the world applied to attend a camp session, and charitable contributions permitted that dream to come true for 55 students. In addition, several groups and corporations funded programs for students and teachers to attend camps, with those donations increasing from \$840,000 in FY06 to \$930,000 in FY07.

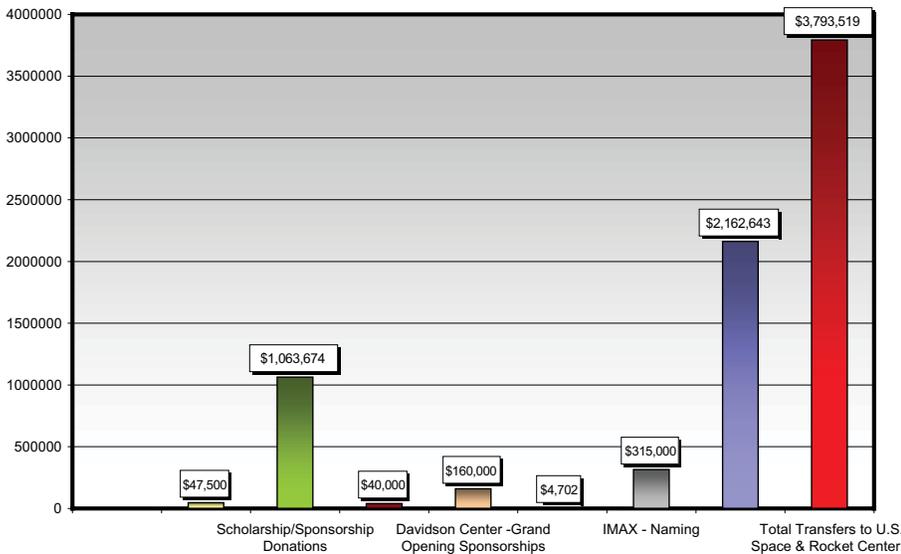
Two new sponsoring organizations joined the USSRC donors' program. The University of Illinois Extension sent 16 students to Huntsville as part of a six-week program for fourth and fifth graders in Cook County, a suburb of Chicago. The Extension Center conducted space-related science experiments for the students on six Saturdays prior to their trip to Alabama. The Alabama Civil Justice Foundation sponsored a week at camp for two children in conjunction with another nonprofit group, Aid to Inmate Mothers. Aid to Inmate Mothers works with underprivileged children whose mothers are incarcerated.

The Foundation posted a record \$3,890,000, due to the generous contribution from ASSEC member and Saturn V Restoration Executive Committee member, Dorothy Davidson. However, even without that contribution, Foundation revenue grew 38 percent over that of FY06.

Penny J. Pettigrew (H.O.F. Inductee)

- Ares I First Stage and Verification Req. Team Leader
 - 1989 Adult SPACE CAMP trainee
- Penny J. Pettigrew did not get the opportunity to attend SPACE CAMP until she was a sophomore in college at the Colorado School of Mines (CSM) in Golden, Colorado. Penny attended Adult Camp in 1989, never imagining how the experience would shape the rest of her life. Penny graduated with a Bachelor of Science degree in Chemistry from CSM in 1992 and later received her Master of Science degree in Chemistry with an emphasis in Materials Science from the University of Alabama in Huntsville in 1996. Penny is employed with the Jacobs Engineering ESTS Group and serves as the First Stage Requirements and Verification Team Lead. Penny lives with her husband and daughter in Huntsville, Alabama.

USSRC Foundation Transfers to U.S. Space & Rocket Center - FY 2007



Center Receives State and Federal Appropriations

In the government sector, the Madison County Legislative Delegation members help support the USSRC objective to reach as many Alabama schoolchildren as possible. The legislative team increased the state appropriation to the Center from \$500,000 in FY07 to \$700,000 for FY08.

In the U.S. Congress, Senator Richard Shelby and Representative Bud Cramer continue to assist the USSRC mission. The Center received \$470,000 for museum upgrades in the 2008 Consolidated Appropriations Act.

Aerospace

IMAX® Features First-Run Movies

For the first time this year, the USSRC IMAX® was allowed to show first-run feature-length movies at the same time they debuted at local commercial theaters. The USSRC IMAX®, which normally operates only during business hours of 9 a.m. to 5 p.m., extended the schedule to include evening shows for *Spiderman 3* and *Harry Potter: The Order of the Phoenix*.

Spiderman 3, which opened at one minute after midnight on Friday, May 4, 2007, was a complete sellout, as were showings for the entire opening week. In total, 15,297 guests came to see *Spiderman 3*, and the film grossed

\$148,716 in revenue. Similarly, the USSRC debuted *Harry Potter: The Order of the Phoenix* at one minute after midnight on July 11, 2007, drawing a total of 11,905 guests and grossing \$115,661 in revenue.

The IMAX® concession stand posted a 100 percent growth in sales over FY06.

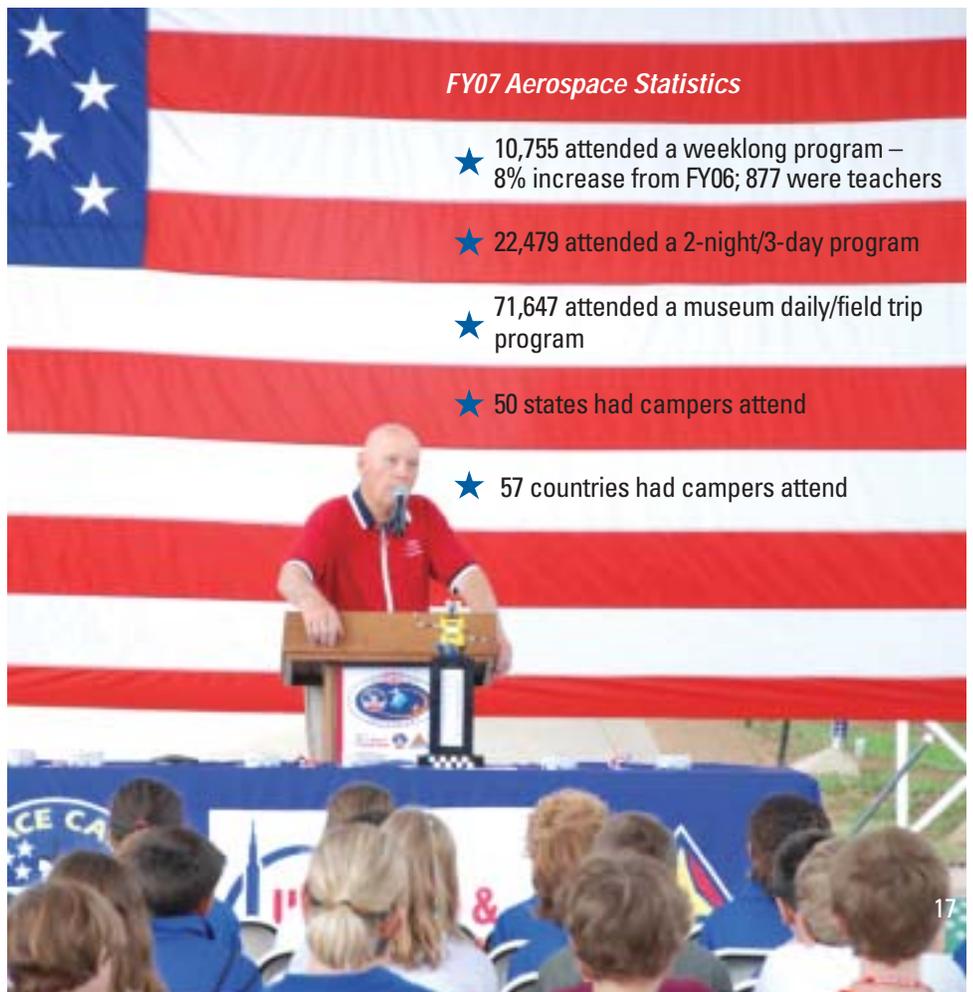
Dr. Georg von Tiesenhausen (H.O.F. Inductee)

- Retired member of the von Braun Saturn V Rocket Team
 - 1986-2007 Advanced SPACE ACADEMY instructor
- Dr. Georg von Tiesenhausen joined Wernher von Braun's Saturn V Rocket Team in 1953 as one of its critical advisors, and 20 years after his retirement, NASA still uses many of the components he designed for the launch vehicles of the future. In his 21st consecutive year as a SPACE CAMP volunteer, twice a week, von Tiesenhausen shares his firsthand experiences as a scientist with his Advanced SPACE ACADEMY students. Covering topics as in-depth as the Space-Time Continuum, von Tiesenhausen discusses the material in such a manner that even the youngest student will understand and appreciate the lesson. Dr. von Tiesenhausen lives in Huntsville, Alabama, with his wife.

Corporate Camp Adds New Options

During FY07, the Corporate Camp section developed custom programs with Abercrombie & Kent Space, LLC, and formed an alliance with AsOne, Inc., for facilitated programs called "Leadership Series at the U.S. Space & Rocket Center."

In addition to program development, the staff coordinated camps for NASA (all Centers), firefighters, the Office of Personnel Management (Western Management Development Center's Custom Program Division), Siemens VDO, and AirMed.



FY07 Aerospace Statistics

- ★ 10,755 attended a weeklong program – 8% increase from FY06; 877 were teachers
- ★ 22,479 attended a 2-night/3-day program
- ★ 71,647 attended a museum daily/field trip program
- ★ 50 states had campers attend
- ★ 57 countries had campers attend

Educator Programs Continue to Grow

USSRC programs are designed by the six full-time teachers who work in the Center's Education Department. Under the direction of Katrine Balch, the professional development programs for teachers have grown in recent years and served over 1,000 educators (877 in weeklong programs with the remainder in workshops) during FY07. Honeywell sponsored the largest program bringing 265 teachers from across the world to sessions in June 2007. The Boeing Company sponsored 83 educators from the United States and brought 11 from international countries in July. Rockwell Collins, Rockwell Automation, Pratt & Whitney Rocketdyne, NASA, and the University of Alabama in Huntsville also sponsored teachers during the summer.



International SPACE CAMP Draws Teachers from Across the Globe

For the eighteenth year, the National Teacher of the Year (selected by the Council of Chief State School Officers) 54 teachers from the states and U.S. territories, and educators from 22 countries gathered in the Huntsville during the last week in July for International Space Camp. During the week, some of the best teachers in the world learned hands-on instruction for science, mathematics, technology, and engineering, while establishing new friendships that promote global bridge building.

Appalachian Regional Commission

The Appalachian Regional Commission (ARC) initiated a professional development program that brought over 90 teachers to the USSRC. These educators participated in 13 different workshops on topics including robotics, rocketry, moon, Mars, and astronomy. Many of the participants returned to participate in up to five of the 13 different workshops, and some also attended a weeklong session of the SPACE ACADEMY for Educators Program.

In the Fall of 2007, the USSRC began a pilot program in Franklin County, Alabama, called *Adventure to Space*. The program was funded through a \$127,568 grant from the Alabama Department of Economic and Community Affairs. Governor Bob Riley and U.S. Senator Richard Shelby assisted the USSRC in obtaining the grant.

Twelve teachers from three schools in Franklin County first attended SPACE ACADEMY for Educators Program in the summer. Then in September and October 2007, five staff members from the USSRC went to Franklin County to spend three weeks (one week at each school) helping students build a scale model of the space shuttle, ISS, and mission control. While there, the staff hosted parent nights, helped the students build and launch rockets, presented classes on living and working in space, taught lessons in astronomy, and discussed careers. The USSRC staff worked with the Franklin County teachers to supplement space, science, math and technology lessons within the curriculum already planned in their classrooms. USSRC hopes to work with ARC officials to expand this low-cost program to other rural counties throughout the region.



Geospatial Training & Applications Center (GTAC)

Shown at graduation ceremonies for one of three *Be Ready Camps* held at the USSRC during September are (from left) Jim Walker, Alabama Department of Homeland Security Director; Chris Johnson, GTAC Vice President; John Holliday, HEMSI Paramedic and Mock Drill Coordinator; and Sydney Hoffman, Director for the Alabama Governor's Office of Faith-Based and Community Initiatives.

Be Ready Camp Program Expands

Alabama sixth graders—160 in all—came to Huntsville from across the state to learn basic emergency preparedness procedures in a program called *Be Ready Camp*. The Alabama Governor's Office of Faith-Based and Community Initiatives (GFBCI) working in conjunction with the Alabama Department of Homeland Security (AL DHS) and the USSRC established the camp in September 2006 when a group of 80 Madison County students attended a session. By 2007, the program expanded to three sessions held over a three-week period at the USSRC. At the conclusion of each four-day camp, a mock disaster drill was held in which students put into practice their new knowledge, working side-by-side with first-responders. The 2007 *Be Ready Camps* were funded from the corporate sector by FedEx, Toyota Motor Manufacturing Alabama, ProPac, The Boeing Company, and Wal-Mart.

GTAC Aids Government Agencies

GTAC assisted a number of government agencies during FY07 with mapping and training services including the Alabama Department of Homeland Security, Alabama Criminal Justice Information



Center, Alabama Department of Children's Affairs, Alabama Department of Environmental Management, U.S. Army Space and Missile Defense Command, University of Tennessee Knoxville Homeland Security Nursing School, and Governor's Office of Faith-Based and Community Initiatives.

Facilities

The Facilities Department completed the remodeling of all restrooms in Habitat I. These nine restrooms were transformed from open shower and dressing room areas to individual showers and dressing rooms for trainees. This remodeling by the Facilities Department received rave reviews from group leaders attending USSRC programs, especially repeat group leaders.

IU Refurbished for Davidson Center

The Bus Maintenance Facility Team took on the goal of restoring the actual Instrument Ring (IU) that belongs to the USSRC's Saturn V. This project commenced in early February and was completed in July.

USSRC staff members, Norm (Corkey) Evans, Bubba Gaylor, and James Willhite, started with a completely bare ring and working with USSRC Archives were able to populate the ring with material stored in the USSRC warehouse. Much of the hardware had to be machined and fabricated from drawings in order to duplicate the actual items. This IU Ring now hangs in the new Davidson Center for Space Exploration where it is again reunited with the Saturn V.

Support Programs accomplished many projects in FY07 including:

- Adding new items to the gift shop including Photo Fantasy booths, and Animal Land (Build a Bear);
- Providing a new look through landscaping changes utilizing water features, flowers, and shrubbery;
- Raised the AC lake bottom to a four-foot level and re-sanded the bottom for increased safety;
- Converted the IMAX® restrooms to a women's restroom with improved handicap accessibility; and
- Upgraded HVAC in Habitat II and Administrative area.

Programs Draw Visitors from across the Globe

Students and teachers from the following countries and U.S. territories participated in camp programs during FY07.

ARGENTINA	DENMARK	JAPAN	SINGAPORE
AUSTRALIA	DOMINICAN REPUBLIC	KAZAKHSTAN	SLOVAKIA
AUSTRIA	FINLAND	MALAYSIA	SOUTH AFRICA
BELGIUM	FRANCE	MEXICO	SOUTH KOREA
BRAZIL	GERMANYGREECE	NETHERLANDS	SPAIN
BULGARIA	GUAM	NEW ZEALAND	SWITZERLAND
CAMEROON	HOLLAND	NORWAY	TAIWAN
CANADA	HONDURAS	POLAND	THAILAND
CAYMAN ISLANDS	HONG KONG	PORTUGAL	TRINIDAD & TABAGO
CHILE	HUNGARY	PUERTO RICO	TURKEY
CHINA	INDIA	ROMANIA	UNITED ARAB EMIRATES
COLOMBIA	IRELAND	RUSSIA	UNITED KINGDOM
COSTA RICA	ISRAEL	SAMOA	VENEZUELA
CZECH REPUBLIC	ITALY	SAUDI ARABIA	VIRGIN ISLANDS



Edward O. Buckbee (H.O.F. Inductee)

- President, Ed Buckbee & Associates
 - Former Director, U.S. Space & Rocket Center
- Ed Buckbee was selected by Wernher von Braun in 1970 to be the first director of the USSRC. Collaboration between Buckbee and von Braun gave birth to the SPACE CAMP programs, and Buckbee also started International SPACE CAMP to promote international cooperation in space and successfully organized camps in Japan, Belgium, Italy, and Canada. Retiring from the U.S. Space & Rocket Center in 1994, Buckbee remains a talented spokesman and advocate for NASA and the exploration of space. As president of Ed Buckbee & Associates, he continues to develop, promote, and present programs to increase the public's understanding of the U.S. role in technology programs.





Human Resources

The Human Resources (HR) Department experienced several changes during FY07. Longtime Vice President of HR, Marion Cox retired in January 2007, after 20 years of service to the Center. Her contributions are invaluable. As a direct result of her efforts, the HR functions encompassing salary scales and compensation, benefits, employment protocols, and affirmative action/EEO are finely tuned.

A committee comprised of several managers assisted with selecting her replacement – Vickie Henderson, who received her master’s degree from the University of Alabama in Business Management and has over 17 years of HR experience.

In the summer of 2007, the Office of Federal Contract Compliance audited the Center’s Affirmative Action Plan to include a compensation analysis. The USSRC was found to be in compliance after this examination of the equal opportunity processes. USSRC staff members continue to monitor these systems to ensure compliance.

Over this past year, Henderson and her team of professionals accomplished several goals:

1) On-site drug testing process; In an effort to reduce cost and put new hires on the job faster, the HR department implemented an on-site drug screening process in the fall of 2007. The new process reduces drug screening expenses by 50% and also allows the USSRC to put new hires to work the same day if needed. This system is also being utilized for random drug screening of employees. Employees selected for a random screen are no longer required to leave USSRC

property, which reduces cost and allows our staff to return to work much faster.
2) A revision of HR policies, procedures and forms; and
3) Review and modification of position descriptions;

The HR Department completed a major project by reviewing and updating all temporary job descriptions for the USSRC. Two new sections outlining the general and professional requirements of positions were added. These stated requirements will assist managers with clarifying and encouraging minimum professional standards.

In addition to licensing camp operations, Kelly worked with the United States Department of the Interior, Fish and Wildlife Service to transfer ownership of the mobile quarantine facility (see opposite page) to the Alabama Space Science Exhibit Commission.

Kelly worked with the University of Alabama in Huntsville (UAH) to set up a joint project through which records stored in the archives at UAH and at the USSRC can be digitized and made available on the Internet.

The licensing section also keeps the USSRC and camp brands strong by policing the unauthorized use of the USSRC’s intellectual property.



Licensing

Ghazi A. Al-Ibrahim, Chairman of the Board and his wife, Pamela, of Space Investment Company, entered into two agreements with the USSRC to place camp operations in the Arab/ISC Region. One agreement is for a license to operate SPACE CAMP and the other is a license agreement for AVIATION CHALLENGE camp operations. The agreements include the right to extend into North Africa and the Indian subcontinent in future years. When Space Investment Company completes its plan in 2012, the company will be operating six camps (one each SPACE CAMP and AVIATION CHALLENGE camp in three separate locations).

Also, Mike Kelly, the Vice President of Licensing, continues to work to place a camp in South Korea. The final payment for that SPACE CAMP license is due in FY08.

Dr. Wernher von Braun (H.O.F. Inductee)

In addition to being a brilliant engineer, Dr. Wernher von Braun was an effective public relations man who understood the importance of communicating the vision of space exploration to the public and to elected leaders. As a youth, he became enamored with astronomy and the possibilities of exploring space, and as an adult, he is best known as the leader of the rocket team that designed and tested the Saturn V moon rocket. Von Braun started his work in Huntsville at the Army Ballistic Missile Agency and transferred to NASA in 1960. He served as the first director for the Marshall Space Flight Center, and in 1970, NASA transferred him to Washington, D.C., to head up the strategic planning effort for the agency. He died in Alexandria, Virginia, on June 16, 1977.

While the world knows him as the man who led the team that put America on the moon, those affiliated with the U.S. Space & Rocket Center know that it was through his efforts that the Alabama Legislature passed a law establishing the museum and that SPACE CAMP was founded as part of his vision to provide a math and science camp for students.



Original Museum

As a number of objects and exhibits from the old museum will appear in the MOON ROCKET exhibition in the Saturn V Center, the opportunity arises to redevelop old museum contents to tell a new, compelling story. Not only will this new approach stand on its own, it will complement and expand the story told in the Davidson Center.

MQF Found

The MQF arrived in Huntsville in September and after refurbishment will be placed in the Davidson Center for Space Exploration, along with the other Apollo artifacts. The MQF002 is one of only three MQFs that exist today, and the Saturn V 500D/F is one of only three remaining moon rockets. The Davidson Center will be the only place in the world where both of these historic Apollo artifacts are displayed together.



A shed constructed over the MQF002 protected the exterior of the unit that housed Apollo 12 astronauts Pete Conrad, Richard Gordon, and Alan Bean after splashdown.





Rocket Park

As the new museum exhibit design plan is implemented, it provides opportunity for redeveloping the Rocket Park to more closely complement the stories told in both the new Davidson Center and the original Museum. This new approach will also strengthen the park as an attraction in its own right.



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