



MARSHALL STAR

Serving the Marshall Space Flight Center Community

April 10, 2003

NASA awards \$135 million to continue Space Launch Initiative

NASA Headquarters release

NASA has announced approximately \$135 million dollars will be awarded to three competing contractor teams to continue support of NASA's Orbital Space Plane program under the Space Launch Initiative to provide crew rescue and transfer capabilities to the International Space Station.

The awards are a part of a contract modification of a Cycle 1 Space Launch Initiative solicitation originally awarded in May 2001. This modification extends existing contracts through July 2004.

The Orbital Space Plane program will provide the capability for crew rescue by 2010 and the capability for crews to transfer to and from the International Space Station by 2012.

The three system-design contractor teams — The Boeing Company of Seal Beach, Calif.; Lockheed Martin Corp. of Denver; and a team including Orbital Sciences Corp. of Dulles, Va., and Northrop Grumman of El Segundo, Calif. — will each receive approximately \$45 million to design potential candidates for the system, including the Orbital Space Plane vehicle or

See SLI on page 2



Photo by Doug Stoffer, NASA/Marshall Center

Live long and prosper

Leonard Nimoy flashes the famous "Vulcan" greeting from his days as "Mr. Spock" on the 1960s television series "Star Trek." He was guest speaker during the 15th Annual Dr. Wernher von Braun Memorial Celebration last week. The celebration was held in conjunction with the TEAMS technology conference at the Von Braun Center. For more photos and award winners, see page 4.

Testing children's eyes in a flash

NASA-developed system heads to Technology Hall of Fame

by Jack Robertson

Picture a group of children in kindergarten giggling and fidgeting while standing in a line. They're getting ready for a test, but you'd never know it by looking at them. They're lining up for a simple, inexpensive eye test that is literally as quick as taking a photo.

But this test helps determine if a child has vision problems. It's a test that, in many cases, will change a child's life.

The Space Foundation is honoring the technology that creates scenes like this everyday, throughout the country. The VisiScreen* Ocular Screening System is about to become one of six new members of the Foundation's Space Technology Hall of Fame.

The basis for VisiScreen* originated at the Marshall Center and was developed as a commercial system by Vision Research Corporation of Birmingham.

The honorees will be inducted during ceremonies at the 19th National Space Symposium April 10 in Colorado Springs, Colo.

The technology for VisiScreen* was first used in NASA space telescopes and Earth imaging systems during Landsat and Skylab missions in the 1970s.

NASA's work on image processing and space optics led innovators at the Marshall Center to develop and patent a method and device for detecting human eye defects.

With the help of NASA's technology transfer program,

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vehicles, ground operations and all supporting technologies needed to conduct a mission to and from the Space Station.

The contract modification includes work to develop system specifications, including systems analysis, trade studies and concept feasibility in preparation for NASA's Orbital Space Plane Program's Systems Requirements Review. The review, scheduled for October 2003, will evaluate the concept design based on the Level 1 requirements — guidelines that lay out the foundation and top-level needs of the system. The review will also set Level 2 requirements that will further

narrow the scope of the system design, including requirements for crew safety, cost, and interfacing with launch vehicles and the Space Station.

Once the Systems Requirements Review is complete, the contractors will begin work on the next phase, which includes trade studies, development of a conceptual design that meets Level 2 requirements and supporting analysis leading to NASA's Systems Design Review, scheduled for April 2004. The Systems Design Review is a NASA-led review to validate the Level 2 requirements and determine Level 3 requirements to more precisely define the needs and specifications of the system. A

full-scale development decision by NASA is expected in the fall of 2004.

The Orbital Space Plane program supports U.S. International Space Station requirements for crew rescue, crew transport and contingency cargo such as supplies, food and other needed equipment. The system will initially launch on an expendable launch vehicle to provide rescue capability for no fewer than four Space Station crew members as soon as practical — but no later than 2010. It will also provide transportation capability for no fewer than four crew members to and from the Space Station as soon as practical — but no later than 2012.

Space Observatory to Study the Old, the Cold and the Dusty

JPL news release

A NASA observatory will soon open a new window to the universe. By using infrared technology to study celestial objects that are either too cool, too dust-enshrouded or too far away to otherwise be seen, NASA's Space Infrared Telescope Facility will pierce the thick dust that permeates the universe.

From its Earth-trailing orbit around the Sun, the observatory, set to launch on April 18, will unveil new information about galaxies, stars and dusty discs around nearby stars, which may be "planetary construction zones."

"The Space Infrared Telescope Facility will complete NASA's suite of Great Observatories, a program that includes three previous missions that studied the universe with visible light, X-rays and gamma rays," said Dr. Ed Weiler, NASA's associate administrator for space science. "Many cosmic objects produce radiation over a wide range of wavelengths, so it's important to get the whole picture."

The three previous Great Observatories are the Hubble Space Telescope, Compton Gamma Ray Observatory and Chandra X-ray Observatory.

By studying the structure and composition of dusty planet-forming discs around stars, the mission will aid the search for Earth-like planets that may harbor life. This makes it a cornerstone of NASA's Origins Program, which seeks to answer the questions, "Where did we come from? Are we alone?"

Infrared detectors can see longer wavelengths than the red light visible to our eyes. As the universe expands, starlight from distant galaxies is shifted from blue to red and, ultimately, into the infrared. Most radiation emitted by stars, galaxies and other objects in the early universe now lies in the infrared. The Space Infrared Telescope Facility will enable scientists to look farther back in space and time than was previously possible.

"With this mission, we will see the universe as it was billions

of years ago, helping us pinpoint how and when the first objects formed, as well as their composition," said Dr. Anne Kinney, director of the astronomy and physics division at NASA Headquarters, Washington, D.C.

"The observatory will give us a better understanding of the universe and our place within it," said Dr. Michael Werner, the mission's project scientist at NASA's Jet Propulsion Laboratory, Pasadena, Calif. "For example, interstellar space has lots of carbon-rich organic molecules. Understanding these may illuminate the processes by which life formed."

During its two-and-one-half to five-year mission, the observatory also will study brown dwarfs, or cool, "failed stars." Some scientists think brown dwarfs may account for some or all of the elusive "dark matter" thought to be prevalent in the universe. The

*See **Observatory** on page 9*



Courtesy photo/Marshall Imaging Services

Who am I?

I doubt that you can tell who I am from this picture. I left Saigon, Vietnam with my family in 1975 as a refugee when I was 16 years old. We had to leave everything behind. Seven years ago, a neighbor in Vietnam found and sent me this ragged picture, which has recently been restored. To see who I am, go to page 10.



Photos by Ray Downward, NASA/Marshall Center

Thanking those helping with the Shuttle Columbia debris search

Marshall Center Director Art Stephenson traveled to Palestine, Texas, recently where he met with residents and volunteers involved in the Space Shuttle Columbia debris search and recovery effort. In the left photo, Stephenson speaks to recovery teams “Zuni No. 8” and “Mescalero No. 4” at a recovery site. Both teams are made up of American Indians from New Mexico. In the photo at right, Stephenson thanks the people of Palestine for their part in the Shuttle recovery.

Flash

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individuals and companies transitioned the technology into the commercial arena. Under an exclusive license from NASA, Vision Research Corp. began marketing the technology in 1991. Over the past several years, Vision Research has screened almost two million children for eye problems in public schools.

The company works with corporate sponsors and local governments to conduct large-scale eye screening programs ranging from 5,000 to over 150,000 children per program. Also, pediatric clinics in more than half of the United States use the system.

“Children who can’t see well are at an obvious disadvantage – both educationally and socially,” said Jim Kennemer, president of Vision Research. “Even worse, one of every fifty children has an eye problem that will cause permanent vision impairment if not detected and corrected early enough. The NASA technology that has made our screening programs possible has truly changed the lives of tens of thousands of children.”

“This is another tremendous example of how technology developed for the space program pays off in unexpected benefits for people on Earth,” said Vernotto McMillan, manager of the Technology Transfer Department at the Marshall Center. “We are proud that technology created by Marshall Center scientists is helping millions of children.”

VisiScreen* is based on a process called “photo refraction.” It involves taking a special highly precise color photo of a child’s eyes and analyzing it for a wide range of potential problems.

Unlike any prior form of eye screening, it requires no response from the child, and it takes only a few seconds per test.

VisiScreen* detects a wide range of eye problems, including nearsightedness, farsightedness, alignment problems, opacities such as cataracts, differences in the eyes that can indicate or lead to amblyopia — often called “lazy eye” — and a number of other ocular abnormalities.

The system includes a special camera, lens and electronic flash. The flash sends light into the child’s eyes, which is reflected from the retina back to the camera lens, producing a revealing image. Examination of the image by a trained observer then identifies abnormalities.

The Space Foundation, in cooperation with NASA, established the Technology Hall of Fame in 1988 to honor the innovators who have transformed space technology into commercial products, to increase public awareness of the benefits of space spin-off technology and to encourage further innovation. This year’s inductees bring the total number of Hall of Fame recipients to 44.

To learn more about technology transfer managed by the Marshall Center, visit the Web site: <http://techtran.msfc.nasa.gov>.

For more information about the Space Foundation and the Technology Hall of Fame, visit the Web site: <http://www.spacefoundation.org>.

For more information about Vision Research Corporation and the VisiScreen* system, visit the Web site: <http://www.vision-research.com>.

The writer, an employee of ASRI, supports the Media Relations Department.

TEAMS Week 2003 showcases high-tech opportunities and companies in Alabama

by Jonathan Baggs

TEAMS Week 2003 last week at the Von Braun Center highlighted Alabama and Huntsville's technological capabilities through exhibits and panel discussions.

The discussions were keyed toward technological areas of interest to five Huntsville federal agencies -- the U.S. Army Aviation and Missile Command, U.S. Army Space and Missile Defense Command, the Marshall Center, the Missile Defense Agency Ground-based Midcourse Defense Program Office and the Program Executive Office for Air and Missile Defense.

"Delivering Technology Today -- Developing Technologies for Tomorrow," was the conference theme this year.

The Huntsville Association of Technical Societies (HATS) sponsors the Technological Excellence in Aviation, Missiles, and Space (TEAMS) Week.

Part of the week was the 15th Annual Dr. Wernher von Braun Memorial Celebration dinner featuring Leonard Nimoy of "Star Trek" television fame as guest speaker.

Four awards and two scholarships were presented.

Mary Howard, a fourth-grade teacher at Mountain Gap Elementary School, won the Dr. Wernher von Braun Aerospace Educator Award.

Michael Ward, vice president of government affairs for the Huntsville-Madison County Chamber of Commerce, won the Dr. Wernher von Braun Community Service Award.

James Kennedy, deputy director of Kennedy Space Center and the former deputy director of the Marshall Center, was presented the Dr. Wernher von Braun Astronautics Engineer Award.

Lon Rains, editor of Space News, received the National Space Club Media Award.

Peter Teets, undersecretary of the Air Force for Space and director of the National Reconnaissance Office, was named winner of the Dr. Wernher von Braun Space Flight Trophy.

Dr. Wernher von Braun Scholarship awards went to Jessilyn Chatman, a senior at Alabama A&M University in Huntsville, and to Sarah Paul, an undergraduate student at the University of Alabama in Huntsville.

The writer, an employee of ASRI, is the editor of the Marshall Star.



Dr. Wernher von Braun Memorial Celebration Award winners are, from left, Michael Ward, Peter Teets, Mary Howard, and James Kennedy. Not pictured is Lon Rains.



Recipients of the Dr. Wernher von Braun Scholarship Awards are Sarah Paul, left, and Jessilyn Chatman, right.

Photos by Doug Staffer, NASA/Marshall Center



Huntsville Mayor Loretta Spencer, left, chats with Marshall Center Director Art Stephenson, center, and Maj. Gen. Larry Dodgen of Redstone Arsenal during the TEAMS 2003 conference.



Hampton Cove Middle School students Courtney Moore, center and Garrett Smith, right, with the help of Principal Dr. Debi Edwards, left, show that their "cupboard is bare" as they encourage corporate donations to fill technology needs at their school.



Photos by Emmett Given, NASA/Marshall Center

Redstone Arsenal creek cleanup promotes environmental awareness

Team Redstone and Marshall Center volunteers joined to clean up Huntsville Spring Branch and McDonald Creek on April 5 as part of the "Great American Clean Up" at Redstone Arsenal. The goal was to clean at least a mile of each creek. In the left photo, Steve Nelson, left, and Jonathan Keller, remove a shopping cart and other debris from Huntsville Spring Branch. Nelson's wife, Wanda, works in Marshall's Integrated Financial Management Program Office. In the photo at right, Arthur Patrick of the Marshall Center's Environmental Engineering Department hoists a bag of debris that he fished out of the creek and into his canoe just south of Gate 1.

NASA's Mars Odyssey points to melting snow as cause of gullies on red planet

NASA Headquarters/JPL release

Images from the visible light camera on NASA's Mars Odyssey spacecraft, combined with images from NASA's Mars Global Surveyor, suggest melting snow is the likely cause of the numerous eroded gullies first documented on Mars in 2000 by Global Surveyor.

The now-famous martian gullies were created by trickling water from melting snow packs, not underground springs or pressurized flows, as had been previously suggested, according to Dr. Philip Christensen, the principal investigator for Odyssey's camera system and a professor from Arizona State University in Tempe.

Christensen said the gullies appear to be carved by water melting and flowing beneath snow packs, where it is sheltered from rapid evaporation in the planet's thin atmosphere.

Looking at an image of an impact crater in the southern mid-latitudes of

Mars, Christensen noted eroded gullies on the crater's cold, pole-facing northern wall and immediately next to them a section of what he calls "pasted-on terrain."

Such unique terrain represents a smooth deposit of material that Mars researchers have concluded is "volatile" — composed of materials that evaporate in the thin Mars atmosphere — because it characteristically occurs only in the coldest, most sheltered areas. The most likely composition of this slowly evaporating material is snow.

Christensen suspected a special relationship between the gullies and the snow.

"The Odyssey image shows a crater on the pole-facing side has this 'pasted-on' terrain, and as you come around to the west there are all these gullies," Christensen said. "I saw it and said 'Aha-ha!' It looks for all the world like these gullies are being exposed as this terrain is being removed through melting and

evaporation."

Eroded gullies on martian crater walls and cliff sides were first observed in images taken by Mars Global Surveyor in 2000.

There have been other scientific theories offered to explain gully formation on Mars, including seeps of ground water, pressurized flows of ground water (or carbon dioxide), and mudflows caused by collapsing permafrost deposits, but no explanation to date has been universally accepted. The scientific community has remained puzzled, yet has been eagerly pursuing various possibilities.

"The gullies are very young," Christensen said. "That's always bothered me, because how is it that Mars has groundwater close enough to the surface to form these gullies, and yet the water has stuck around for billions of years? Second, you have craters with rims that are raised, and the gullies go almost to the crest of the

See Odyssey on page 8

'Eggtastic' time had by all at annual

The annual Easter Egg Hunt at the Marshall Center drew more than 300 participants for fun, games and food at the picnic grounds April 5.

Here are the door-prize winners in the children's categories:

☛ Under 2 Years

Samuel Sprader, first place
Sarah Thornton, second place
Matthew Freestone, third place

☛ 2-3 Years

Grant Lundy, first place
Therese Breithaupt, second place
Luke Hayes, third place

☛ 4-5 Years:

Olivia LeVert, first place
Jacob Sato, second place
Cassidy Cheatham, third place

☛ 6-7 Years:

Maria Torres, first place
Quevade Abernathy, second place
Jalyn Ben, third place

☛ 8-10 Years:

Jordan Cunningham, first place
Natalie Marion, second place
Samantha Fotovich, third place



Photos by Emmett Given, NASA/Marshall Star

April Richardson, daughter of Stephen and Erin Richardson, is not too favorably impressed with the Easter Bunny.



Lyrick Shine, left, grandmother Eunice Adams, center, and Cedrick Shine, show off their "bunny faces."



Andrea Ise puts on her bunny face.



Brooke Turner, 2, goes after an egg while her uncle, James "Frosty" Turner, is left holding the bag.

Marshall Center Easter Egg Hunt



Jordan Deiss competes in the egg hunt for children age 6-7.



Caleb Lee, 3, helps his grandmother, Julia Lee, hide eggs prior to the hunt.



Richard Grugel and his son, Rory, 4, hunt for eggs.



Charles Sims, 3, gets a little help with his artwork from his dad, George Sims.

Marshall Center's Earth Day events April 23

by Sharon Scroggins

Earth Day ceremonies at the Marshall Center will be April 23 from 10–11 a.m. at the new Activities Building 4316.

In the event of inclement weather, the ceremony will be held inside the Activities Building.

This year's theme is "Let's Talk Trash" to emphasize individual responsibility in protecting and enhancing the environment.

Pat Byington, an environmental consultant who serves on various state boards, will speak. Byington also serves on the Alabama Environmental Management Commission — an advisory board for the Alabama Department of Environmental

Management — the state's environmental regulatory enforcement agency.



Other activities include the annual tree planting and vendors will be present with environmental information on geothermal heat pumps, TVA's Green Power Switch Program, household hazardous waste disposal, as well as a hybrid car demonstration. The Environmental Excellence Team will have giveaway items, some of which are made from recycled money and denim, in addition to the Red Maple, River Birch, and Japanese Maple tree seedlings.

Due to limited parking at the facility, walking or using the shuttle service is encouraged.

The writer works in the Environmental Engineering Department.

Odyssey

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rim. If it's a leaking subsurface aquifer, there's not much subsurface up there. And, finally, why do they occur preferentially on the cold face of the slope at mid-latitudes? If it's melting groundwater causing the flow, that's the coldest place, and the least likely place for that to happen."

Christensen points out that finding water erosion under melting snow deposits answers many of these problems.

"Snow on Mars is most likely to accumulate on the pole-facing slopes, the coldest areas," Christensen said. "It accumulates and drapes the landscape in these areas during one climate period, and then it melts during a warmer one. Melting begins first in the most exposed area right at the crest of the ridge. This explains why gullies start so high up."

Once he started to think about snow, Christensen began finding a large number of other images showing a similar relationship between "pasted on" snow deposits and gullies in the high resolution images taken by the camera on Global Surveyor. Yet it was the unique mid-range resolution of the visible light camera in Mars Odyssey's thermal emission imaging system that was critical for the insight, because of its wide field of view.

"It was almost like finding a Rosetta Stone," Christensen said. "The basic idea comes out of having a regional view, which Odyssey's camera system gives. It's a kind of you-can't-see-the-forest-for-the-trees problem. An Odyssey image made it all suddenly click, because the resolution was high enough to identify these features and yet low enough to show their relation-

ship to each other in the landscape."

Dr. Jim Garvin, NASA's lead scientist for Mars Exploration in Washington, D.C., said Christensen's new hypothesis was made possible by NASA's tandem of science orbiters currently laying the groundwork for locating the most interesting areas for future surface exploration by roving laboratories, such as the Mars Exploration Rovers, scheduled for launch in May and June."

The Jet Propulsion Laboratory manages the Mars Exploration Program for NASA's Office of Space Science in Washington, D.C.

The new images are available online at <http://photojournal.jpl.nasa.gov/catalog/PIA04408> and <http://photojournal.jpl.nasa.gov/catalog/PIA04409>.

More information about the 2001 Mars Odyssey mission is available at <http://mars.jpl.nasa.gov/odyssey/>.

ODIN property tips

- ☛ How do I request ODIN equipment to be moved?
Go to <https://srs.msfc.nasa.gov/catalog/bin/home.asp>
- ☛ How do I change location information?
Contact your OCIO and they will submit the information.
- ☛ Whom should I contact regarding ODIN property information?
Send a message to: Odin.Property@msfc.nasa.gov

Observatory

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mission will also study planets in our own solar system, asteroids and comets.

The observatory's telescope has three science instruments. The infrared array camera is a general-purpose camera for near infrared to mid-infrared wavelengths. The infrared spectrograph breaks light into its various wavelengths, much like a prism, to help astronomers study the composition of cosmic objects. The multi-band imaging photometer will gather pictures and limited spectroscopic data at far-infrared wavelengths to study cool, dusty objects.

The spacecraft features several technological breakthroughs, and the out-of-the-ordinary mission design will pay dividends as well.

"The innovations have substantially reduced mission development costs," said Project Manager Dave Gallagher at JPL.

"For example, the mission's Earth-trailing orbit simplifies scheduling and operations. Because the telescope detects heat from relatively cool objects, we have to keep it extremely cold. We've found a more efficient way to cool the

Obituaries

Billy C. Hughes, 76, of Charleston, S.C., died March 11.

Hughes was born Jan. 25, 1927, in Birmingham. He was U.S. Navy veteran of World War II and after his service he worked in the Optical Shop at the Charleston Naval Shipyard for 17 years. In January 1958, he transferred to the Marshall Center to work in the Astrionics Division, Gyro Section under Tom Morgan. He retired from Marshall in 1978, and moved back to Charleston.

He is survived by his wife, Charlotte.

Cathy Nichelson, 41, of Huntsville, died April 2. Funeral services were at Valhalla Funeral Home with friends and NASA co-workers speaking in tribute to her memory.

Burial was in Valhalla Memory Gardens.

Nichelson was born July 22, 1961, in Madison County. She was a graduate of Johnson High School in Huntsville and was active in community affairs. She was an employee of the Marshall Center for almost 20 years, working in several directorates and offices. At the time of her death, she was a senior budget analyst in the Budget Integration Office in the Office of the Chief Financial Officer.

She is survived by two sisters, Barbara Nichelson and Debby N. Lizama, both of Huntsville; and one nephew, William Anthony Lizama, of Huntsville.



Meet your SHE Committee

The Marshall Center's Safety, Health & Environmental Committee works to promote and improve workplace safety. SHE Committee members for 2003 are, from left, Tom Dollman, T.D. Jackson, Mike Allen, Paige Vaughn, Jack Caudle, Cathy Miller, Brian Ramsey, Phil Robbins, David Eckstein, NanceJo Ogozalek and Dave Lehner. Not pictured are Axel Roth, Pete Allen, Keith Sharp, Laurel Karr, Julie Sanchez, Charlie Davis, Tommy Barron, Dan Donovan and Paul Munafa. A list of contacts, bulletins, announcements and other safety-related issues can be found at the SHE Web site on "Inside Marshall."

Marshall Imaging Services

telescope and slash the amount of liquid helium the observatory must carry."

The mission's technologies and science discoveries will help enable future Origins missions, such as the James Webb Space Telescope and Terrestrial Planet Finder.

Redstone Arsenal speed limits strictly enforced

Drivers on Redstone Arsenal property are reminded that speed limits, whether posted or those on unmarked roads, are strictly enforced. Speed limits on unmarked roads is 25 mph and 10 mph in parking lots.

Marshall history book available

The Marshall Space Flight Center Retirees Association and Turner Publishing Co. has released "Fifty Years of Rockets & Spacecraft in the Rocket City."

The hardcover book contains 176 pages of history, including a detailed narrative of the Marshall Center. Many never-before-published photographs and insider stories from Marshall retirees are included, along with a special tribute to Dr. Wernher von Braun and a roster of Marshall retirees.

Cost is \$39.95, plus \$7 shipping and handling. Call 1-800-788-3350 to order or send check or money order to Turner Publishing Co., P.O. Box 3101, Paducah, Ky. 42002-3101. For more information, call Turner Publishing Co.

The book also is available at the NASA Exchange in Bldg. 4203.

Tim Reid featured guest at annual UNCF gala

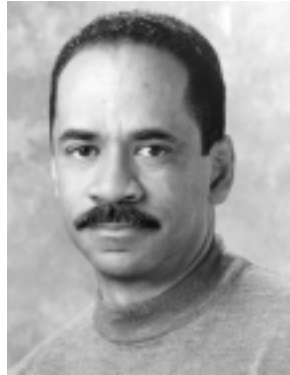
by Chanel Leslie

Tim Reid, an Emmy-nominated actor, director and producer, will be the featured speaker for the 25th Annual United Negro College Fund (UNCF) Banquet on April 17 at 7 p.m. in the Von Braun Center North Hall.

Reid has been a mainstay in the entertainment industry for the last three decades. He starred as “Venus Flytrap,” on the popular CBS television series “WKRP in Cincinnati” from 1978-1982.

Reid has had many starring roles in several television series, including “The Richard Pryor Show,” “Simon & Simon,” “Frank’s Place,” “Snoops” and the WB series “Sister, Sister.” Twice he has been nominated for the National Association for the Advancement of Colored People Image Award and the Viewers for Quality Television Award for “Best Actor in a Comedy.”

Reid has written for, and produced, several of the shows and co-starred with his wife, Daphne Maxwell Reid, in “Frank’s Place.” He was a nominee for the Cable Ace Awards and the Producer’s Guild Awards for the Family Channel/BET movie



Reid

Courtesy photo/Marshall Imaging Services

“Race to Freedom: The Underground Railroad.”

In 1990, he co-founded United Image Entertainment and produced four independent films. For his critically acclaimed feature film, “Once Upon a Time ... When We Were Colored,” he received “Best in Show” as a producer by the Houston International Film Festival and he also won the “Directorial Award” from the Ft. Lauderdale International Film Festival.

In 1997, Reid brought together investors to build his own film studio. He created and produced the Showtime series “Linc’s.” As Founder and President of New Millennium Studios in Petersburg, Va., Reid is setting the stage toward becoming a major player in the business of making movies.

For tickets to the banquet, or for more information, call Chanel Leslie at 256-544-3740. Tickets cost \$75 and also can be purchased online at www.oakwoodcollegeuncf.org/events.html.

The writer works in the Equal Opportunity Office at the Marshall Center.

Job Announcements

MS03C0067, Administrative Officer. GS-341-07 (promotion potential to GS-11), Space Transportation Directorate, Business and Administrative Office. Competitive Placement Plan. Closes April 10.

MS03D0070, AST, Experimental Facilities Development. GS-0801-13, Center Operations, Facilities Engineering Department, Operations and Maintenance Group. Closes April 11.

MS03C0072, Program Specialist. GS-0301 07 (promotion potential to GS-11). Second Generation RLV Program Office, Systems Engineering and Integration Office. This is a PIP position. Closes April 18.

MS03N0071, AST, Mission Support Requirements and Development. GS-801-13, Flight Projects Directorate, Payload Operations and Integration Department, Training and Crew Operations Group. Closes April 22.

MS03C0074, Program Analyst. GS-343-14, Science Directorate, Business Management Office. Competitive Placement Plan. Closes April 15.

For a complete list of vacancy announcements, go to http://www1.msfc.nasa.gov/INSIDE/announcements/msfc_jobs.html.

Energy tip: Save water in the kitchen

To save water in the kitchen, scrape off, don’t rinse, large food pieces and add food wastes to a compost pile rather than using a garbage disposal. If you use a dishwasher, soaking or pre-washing dishes generally is only recommended in cases of burned-on or dried-on food. Operate your dishwasher when it is full, but not overloaded. And don’t use the “rinse hold” setting for just a few soiled dishes.

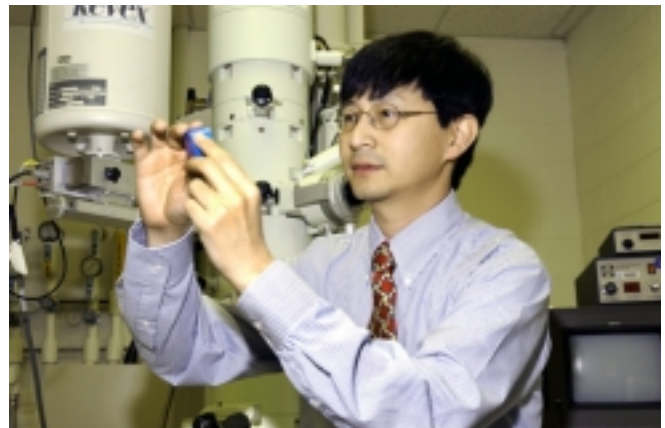


Photo by Terry Leibold, NASA/Marshall Center

Who am I?

Jonathan Lee attended Huntsville High School. He received his bachelor’s and master’s degrees in engineering from the University of Alabama in Huntsville. Lee is a material researcher in the Metallic Materials & Processes Group (ED33). He also is the co-inventor of a new high-strength aluminum alloy. This new alloy promises to lower engine emissions and could improve gas mileage in cars, boats, and recreational vehicles. Lee and his wife have three daughters. He is active in his church and feels very fortunate to live in America and to work at NASA.

Center Announcements

Annual 'Software of the Year' competition nominations open

The annual call for nominations for the NASA Software of the Year Award is open until April 18. The award is for recognition of software developed and owned by NASA. The recognition includes a Space Act award of up to \$100,000. For details, see "Inside Marshall" or call 544-0013 or 544-0014.

FAPAC national leadership conference registration open

The 18th annual Federal Asia Pacific American Council National Leadership Training Conference will be May 12-16 in Arlington, Va., and Washington, D.C. Registration is due by April 26. For more information, go to conference@fapac.org or <http://www.fapac.org>.

AIAA annual Section Award nominations open

The American Institute of Aeronautics and Astronautics Alabama-Mississippi Section 2002-2003 Annual Section Awards nominations are open until April 18. The awards will be presented at the annual Officers and Board of Director Installation and Awards Banquet on May 15. For more information, see "Inside Marshall" or call Steve Noneman at 544-2048.

New print servers added to IDS Utilities at Marshall

Three new print servers have been added to the IDS Utilities folder at the Marshall Center. Employees should delete their current installed printer and then install their printer from one of the new servers. The old print server will be retired April 30. For print queues of the new servers, see "Inside Marshall." Call 544-HELP, Option 7, for questions regarding how to load the print queue.

Lunch-time prayer group open

A lunch-time prayer group is forming to meet from noon-12:30 p.m. Tuesdays and Thursdays. For more

information, call Johnnie Wilson at 544-1007, Deborah Wills at 544-4525 or Terrell Boyd at 544-8294.

Leadership seminar open

A leadership seminar, "Leading in Difficult Times," featuring Rudy Giuliani, former mayor of New York, will be offered via a taped broadcast April 17 from 10 a.m.-noon in the Self-Study Learning Center, Bldg. 4200, Room G13-E. Seating is limited. To register, e-mail the name of the seminar, your full name and phone number, to self.study@msfc.nasa.gov.

SHE seeking volunteers for study on medical conditions

The Safety, Health & Environmental Wellness and Ergonomics Subcommittee is gathering information about annual physicals offered by the Marshall Medical Center. If you have a testimonial regarding a previously undetected medical condition that was discovered during your annual physical, e-mail Joel Best at Joel.B.Best@nasa.gov or Beth Skidmore at Elizabeth.L.Skidmore@nasa.gov.

Marshall Safety Culture Training set for Wednesday

Two classes in Marshall Safety Culture Training will be offered Wednesday. The first class will be 8 a.m.-noon and the second class is 12:30 p.m.-4:30 p.m. Go to the SHE Home Page or see "Inside Marshall" to register.

Dial-in and VPN requires security registration

Marshall team members who use the Virtual Private Network software to connect to the Marshall Private Network, or who dial directly into the network from home or TDY, must apply for a MSFC RSA SecurID Token in April, May or June. For more information, including frequently asked questions and an updated schedule to apply, go to http://www1.msfc.nasa.gov/INSIDE/announcements/dial_in_token.html.

Center Activities Building available for multiple uses

The Center Activities Building, Bldg. 4316, is available for a variety of uses including briefings, meetings, receptions, seminars, parties, receptions, and school or civic events. For more information, see "Inside Marshall."

MARS Skeet and Trap Club beginning season

The MARS Skeet and Trap Club informal leagues will hold shoots until daylight savings time ends in the fall. The Skeet League shoots on Wednesdays and the Trap League shoots on Thursdays. Both leagues begin at about 3:30 p.m. and run until dark. Shooting is informal. For more information, call Randy Thornton at 544-1141.

Sam's Club memberships offered to NASA employees

A \$10 off membership to Sam's Club is available to NASA employees. Cost is \$25 for the first year and includes a card for the employee and one other adult member of the household. The offer expires Tuesday and is valid by mail only. See "Inside Marshall" for details.

Management Operations Office retirees meet April 24

Management Operations Office retirees will meet for brunch at 10 a.m. April 24 at the Cracker Barrel Restaurant in Madison. For more information, call 539-0042.

AIAA dinner meeting is April 17

The American Institute of Aeronautics and Astronautics will meet at 5 p.m. April 17 at the Radisson Suite Hotel at 6000 South Memorial Parkway in Huntsville. AIAA Fellow William F. Chana will speak on "Understanding the Wright Brothers." Cost is \$20 for adults and \$10 for students. Reservations are due by noon Tuesday and can be made by calling Tom Hancock at 722-5555 or 961-4002 or e-mail tom.hancock@msfc.nasa.gov.

Employee Ads

Miscellaneous

- ★ Jackson vine, \$8 each; Siberian iris, \$5 per large clump. 881-6040
- ★ Troybilt, 5HP, chipper/shredder. 259-1834
- ★ New 30 lb. propane tank, \$50; two dark oak night stands & dresser, \$100. 256-714-8580
- ★ Childrens swing set, two swings, trapeze, slide, rocket launcher swing and swinging bench rocker. 830-5039
- ★ Baby items: crib, high chair, bouncy chair, toys, clothes, mostly girls. 885-4290
- ★ French Provincial dining set, cherry, 3 leaves, 6 chairs, glass-front china cabinet, buffet, \$32,500. 881-0883
- ★ Four 1998 Mustang OEM wheels, 16"x7.5", 5-spoke, center beauty rings, \$200. 721-3945
- ★ Body solid cable weight set with 20+ exercise positions, max weight 250 lbs., \$1,000. 316-1880
- ★ Two twin daybeds, mattresses, bedspreads, matching cushions, \$240. 533-4824
- ★ DVD player, Toshiba, \$50; Men's r/h Accubar Rams golf clubs, 3-woods, 8-irons, new, \$125. 337-2805
- ★ Pool table, 8', 1" slate, Kasson, 2 years old, all accessories, \$1,990. 880-6563
- ★ Sleeper/sofa slate blue material, 88" long, recently reupholstered, \$250. 256-721-7351
- ★ Grizzly G1029 dust collector, 220V, many accessories, less than 1 hr. use, \$350. 880-9754
- ★ WebTV/MSN-TV hardware & wireless keyboard, \$50; Kettler scooter, \$50; performance bike trainer, \$50. 895-0148
- ★ Antique large steamer trunk, 41"x22"x23", \$150. 880-9025
- ★ Exercise bike, \$25; Motorized treadmill, \$50. 881-5897
- ★ NordicTrak cross-country skiing exercise machine, \$75 obo. 233-0705/Dollman
- ★ 1994 Stratos bass boat, 1998 Johnson 150, 12/24 trolling motor, 21cr's, hot foot, \$8,500. 233-3407
- ★ Swing-away baseball/softball batting/

- throwing apparatus, \$200. 881-0602 after 5 p.m.
- ★ King-size waterbed, mirrored headboard/bookcase, complete system, \$100 obo. 656-2965
- ★ Heil heating/cooling unit, 3 & 1/2 ton, 1 yr. old, \$500. 232-6819 after 5 p.m.
- ★ New ATI Radeon 7000 64Mb video card, \$44; ATI Rage 32Mb video card, \$20. 489-0136
- ★ Assault-style pellet rifle, one pump, clip-fed, folding stock w/sling. About 650 fps. \$65. 306-0700/303-3702

Vehicles

- ★ 1969 Chevrolet Caprice, 350/300HP, all-original, garage kept, many extras, \$9,500. 256-883-6416
- ★ 1994 Eagle Vision ESI, automatic, 145K miles, power windows & doors, \$1,900. 533-5302
- ★ 1997 Nissan Maxima SE, 4-door, sports sedan, automatic, moonroof, 16" wheels, 83K miles, \$10,500. 881-8674
- ★ 2000 Mustang, V6, auto, loaded, 80K highway miles, \$6,950 firm. 256-753-2278
- ★ 1992 Acura Legend LS, white, loaded, 154K miles, new timing belt, new tires, \$6,300. 461-0605
- ★ 1996 Nissan Quest, green, auto, a/c, PW/PD, 143K miles, \$4,800. 256-479-1331
- ★ 1993 Jeep Grand Cherokee Laredo, 4WD, 143K miles, one-owner, \$4,500. 895-6640
- ★ 1992 Chevy Astro van LT extended, keyless entry, quad seating, CD/cassette, rear air, \$4,500. 722-8116
- ★ 1997 Jeep Wrangler Sport, 4x4, green w/tan soft top, 4.0/6 cyl., 5-speed, 89K miles, \$8,500. 882-7350
- ★ 2000 Dodge Grand Caravan SE, 34.5K miles, rear air, luggage rack, white, \$11,500. 256-658-3540
- ★ 1999 BMW 323i, blue/black leather, 57K miles, one-owner, 5-speed, premium pkg., xenon, CD, \$18,200. 489-0609

- ★ 2000 Beetle Turbo, 5-speed, midnight blue, spoiler, leather, sunroof, 6-disc, VW certified, \$12,500. 881-5093
- ★ 2001 Chevy Tahoe LT, 4WD, 34K miles, loaded, seats eight, \$27,500. 256-828-0103
- ★ 1976 Porsche 914, silver, 2.0L, targa top, nearly complete restoration, garage kept. 233-4680 (Athens)
- ★ 1988 Mazda B2200 extended cab truck, SE5, 5-speed, one-owner, 133K miles, \$1,850 obo. 650-5895
- ★ 1972 Boise motorhome, 32K miles, \$5,000; 1980 Datsun 200SX, 5-speed, hatchback, \$1,500 obo. 256-881-9150
- ★ 1967 Mustang, 6-cyl., \$4,700; 1967 Mustang, 8-cyl., \$7,400; 1963 Thunderbird convertible, \$14,900. 256-757-2850

Wanted

- ★ Treadmill for home use, good condition. 931-438-2709 after 6:30 p.m.
- ★ Used paddle boat in good condition. 461-9182
- ★ Crono Trigger and Final Fantasy II for Super Nintendo entertainment system. 534-7691
- ★ Frost-free upright freezer in good condition. 379-3887
- ★ Day bed with trundle bed. 880-9025
- ★ Car utility trailer, at least 16'. 256-227-4522
- ★ Doors for 81-87 Chevy/GMC pickup, rust and dent free, good condition. 683-9364

Lost

- ★ In Bldg. 4200 area, Black "Zippo" lighter w/ initials "HWG" inscribed on one side, sentimental value. 544-3571

Found

- ★ Bracelet, 1st floor, Bldg. 4202 on April 2. Call 544-6645 to identify
- ★ Motorola Metrocall beeper in MSFC taxi. Call 544-8294 to identify

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