

EXPLORE THE HISTORY AND FUTURE OF SPACE TRAVEL IN OMSI'S NEW EXHIBIT— *SPACE: A JOURNEY TO OUR FUTURE*

PORTLAND, Ore. (Jan. 8, 2009) The Oregon Museum of Science and Industry (OMSI) will offer space exploration enthusiasts the opportunity to touch a piece of Mars, see a real Moon rock up close, take a spin on a space bike, or tour a full-scale future lunar habitat and more in the new exhibit *Space: A Journey to Our Future*, opening January 30, 2010. *Space: A Journey to Our Future* examines the history of our space program, brings to life current projects in space exploration – satellites, space telescopes, living in space – and provides a glimpse of future human space travel through highly advanced interactive displays. *Space: A Journey to Our Future* is one of the largest touring exhibitions ever produced on space exploration. The exhibit comes to OMSI through the generous support of local presenting sponsor Lufthansa and local supporting sponsors Chevron and Mentor Graphics.

"With the International Space Station, Mars rovers, and the LCROSS Moon mission, it is truly a golden age for space exploration," said OMSI planetarium manager Jim Todd. "This exhibit will help people appreciate how far space exploration has come and hopefully will inspire future generations to go further and uncover more mysteries of the cosmos."

"Lufthansa is delighted to support this exhibit and welcome visitors onboard for a truly extraordinary journey through space and time," said Mark Lagler, Lufthansa District Sales Manager, Pacific Northwest.

Exhibit highlights include:

Space Exploration Artifacts - Visitors will see a wide range of artifacts from the past and present space program including space suits, a lunar rover tire, a camera from the Apollo program, early fuel cells and shuttle tiles.

Today's Space Program - This interactive area examines the International Space Station, deep space probes, next-generation telescopes, living in space and space tourism, and NASA studies in robonauts.

Constellation Program - Visitors will get an up-close look at the Orion, the new spacecraft that will take human explorers back to the Moon, and the Ares rocket which will propel the new spacecraft.

Lunar Base Camp - Would-be explorers can literally step into the future and interact aboard a re-created future base camp on the lunar surface.

Create Your Own Mission to Mars- Through hands-on interactive displays and modules, visitors can design their own trip to Mars, from the design of the spacecraft to living quarters to supplies needed, and ultimately find out how successful their trip would likely be.

360-degree "Future Theatre" - In an immersive media experience, visitors will look far into the future of exploration and deep into space, pondering mysteries to be revealed and questions to be answered.

Representatives from NASA, NSTA, and national partner General Motors, along with leading science centers across the country, served on an educational committee for the exhibit to ensure accuracy and relevance in the exhibit's educational message.

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Space: A Journey to Our Future was produced by Evergreen Exhibitions and was made possible by national partner General Motors.

About OMSI

Founded in 1944, the Oregon Museum of Science and Industry (OMSI) is one of the nation's leading science museums, a world-class tourist attraction, and an award-winning educational resource for the kid in each of us. OMSI is located at 1945 SE Water Avenue, Portland, OR 97214. For general information, call 503.797.4000 or visit www.oms.edu.

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FOR IMMEDIATE RELEASE

National 'SPACE' Exhibit Tour Blasts Off in Seattle

Exhibition Created to Generate New Interest in Space Education and Exploration

WASHINGTON, D.C. - An unprecedented traveling exhibition on space exploration has lifted off at Seattle's Pacific Science Center. "SPACE: A Journey to Our Future" is made possible by General Motors. SPACE is produced by Evergreen Exhibitions (formerly Clear Channel Exhibitions) in educational collaboration with National Aeronautics and Space Administration ("NASA") and the National Science Teachers Association ("NSTA").

One of the largest-ever touring space events, the exhibit is designed to be scaled to fit in museum galleries ranging from 6,000 to 12,000 square feet. SPACE will travel to major science centers and museums in 12-15 North American cities over five years. The purpose of SPACE is to present educational elements in scenic environments that will fuel one's imagination in the future of space exploration.

SPACE examines amazing discoveries and explorations from the past and introduces visitors to today's explorers who are shaping our future destiny in the universe. Most of the emphasis in the content relates to current and future exploits in human spaceflight. The exhibit features child-friendly interactives, immersive environments and state-of-the-art projection and audio technology to bring this epic story to life. Highlights will include opportunities to touch pieces of the Moon and Mars, ride a self-powered centrifuge, tour a

full-scale future lunar habitat and work station, get an up-close view of next-generation spacecraft and technology, and interactively plan a trip to Mars.

“Our exploration of space is an absolute necessity,” said former NASA astronaut Gene Cernan, the second American to walk in space and the last man to leave his footprints on the Moon. “This exhibit could be the spark that lights the imagination of a future astronaut or a scientist in the space program.”

Elizabeth A. Lowery, GM vice president of Environment and Energy, noted that for GM, the opportunity to educate in the areas of math and science is extremely important. “The SPACE exhibit embodies many of our corporate education principles including providing young people the chance to learn from real people and about real-world applications of technology,” she said. “We were also pleased to lend the expertise of our scientists and engineers to help create the educational resources for this exhibit focusing on energy, hydrogen and fuel cells.”

The exhibit contains a strong educational component geared towards ages 9 - 17. Leading science centers across the country, such as the St. Louis Science Center, Maryland Science Center, Pacific Science Center and the California Science Center, served on an educational committee along with representatives from NASA, NSTA, GM, Lockheed Martin and Space Day, to ensure the exhibit’s educational message and content accuracy. A teacher’s guide complements the exhibit and is available for download on www.spaceexhibit.com.

Exhibition tour cities that have been announced include Seattle; St. Louis; Tampa; Ashland, Nebraska; Chicago; Detroit; Cincinnati; Raleigh; Washington, DC; and Sacramento.

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FACT SHEET

WHAT: “SPACE: A Journey to Our Future” is a touring exhibition on space exploration, one of the most comprehensive interactive presentations ever developed. The exhibit introduces visitors to today’s explorers who are shaping our future in the universe and lets us literally step into the future of space exploration.

MADE POSSIBLE BY: “SPACE” is made possible by General Motors. Lead promotional units of GM are Cadillac and OnStar. The exhibit is produced by Evergreen Exhibitions (formerly Clear Channel Exhibitions) in educational collaboration with NASA, Lockheed Martin Space Day, and the National Science Teachers Association.

PURPOSE: To ignite the desire for discovery, spark imaginations and inspire a new generation of explorers in space.

SECTIONS: The exhibit’s content encompasses four themes:

1) Dare to Dream, 2) A Dream Come True, 3) Living the Dream, 4) Dream of Tomorrow

EXHIBIT SIZE: Approximately 6,000 square feet

LENGTH OF TOUR: 5 years

POINTS OF INTEREST:

- **Touch the Moon and Mars.** Visitors can touch actual rocks from the lunar surface and the red planet.
- **Space Exploration Artifacts.** Visitors will see a wide range of artifacts from the space program past and present, presented in context--space suits, lunar rover tire, camera and lunar scoop from Apollo program, early fuel cell, shuttle tiles, etc. Also, artifacts that tell about our fascination with space, such as Jules Verne’s “Earth to the Moon,” “War of the Worlds” and Life Magazine stories.
- **Today’s Space Program.** This interactive area examines the International Space Station, NASA studies in areas such as robonauts, deep space probes, next-generation telescopes, living in space and space tourism. Mars rover model and Mars experience area helps visitors learn about current missions.
- **Constellation Program.** Visitors get an up-close look at the Orion, the new spacecraft that will bring human explorers back to the moon, and the Ares rocket,

which will propel the new spacecraft.

- **Create your Own Mission to Mars.** Through hands-on interactive displays and modules, visitors can design their own trip to Mars--from the design of the spacecraft to living quarters to supplies needed (and, find out how successful their trip would likely be).
- **360-degree “Future Theatre.”** In an immersive media experience, looks far into the future of exploration and deep into space, pondering mysteries to be revealed and questions to be answered.

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EXHIBIT HIGHLIGHTS

“SPACE: A JOURNEY TO OUR FUTURE” is created to ignite the desire for space exploration and discovery among student and families, sparking imaginations and inspiring new generations of explorers to dream of the possibilities that lie ahead.

The exhibit, which is touring major science centers and air and space museums around the country over more than four years, gives audiences an opportunity to experience past explorations and look to the future of space travel.

“SPACE” reintroduces audiences to generations of dreamers and thinkers, demonstrating how they have at times risked their lives to give the world a better understanding of who we are and how we fit into the universe around us. Most importantly, visitors will meet today’s explorers, and learn how these people are working to understand more about the planet, how to protect it, and how to increase our understanding of the beginning of the universe and what life exists beyond Earth.

“SPACE” uses immersive scenic elements, the most advanced interactive exhibits and state-of-the-art projection and audio technology to bring this epic story to life.

This wide range of exhibits allows visitors to experience space exploration and discovery firsthand:

INTERACTIVE EXPERIENCES

(Note that interactives vary by venue.)

- Touch a lunar sample
- See artifacts such as a flown lunar scoop and camera from the Apollo program
- Columbia Shuttle tiles
- Listen to a radio to hear “War of the Worlds”
- Step onto the “Moon Scale” and establish your weight on the Moon
- View cultural artifacts surrounding space—books, toys, etc.
- Switch through information coming from dozens of satellites A touch-screen computer interactive lets you look at the same star field through five different telescope set-ups
- Get updated information of various probes hurtling through the Solar System
- Determine the correct amount of fuel needed to get to Mars

- Step in front of an Infrared camera and see your body's temperatures by color on the screen
- Touch a meteoritic sample from Mars
- Mars Rover model
- Discover Space area lets kids experience space with try-on spacesuit, computer interactives, soft play toys, a space library, other media
- Take a spin on a centrifuge that visitors power like a bicycle
- Get a first-hand look at a wide range of artifacts from the space program
- Use a range of interactives to plan, design—even pack for—your own trip to Mars
- Get an up-close view of the Orion—the spacecraft that will take a new generation of human explorers back to the moon, and then onward to Mars and other destinations in the solar system; also, see a model of the Ares rocket that will propel the new spacecraft
- Look far into the future of our exploration of the universe in a 360-degree theater
- Experience the past, present and future of space through these and dozens of other displays, interactives and experiences

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EXHIBITION COLLABORATORS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

Since its inception in 1958, NASA has accomplished many scientific and technological feats in air and space. NASA technology has also been adapted for many non-aerospace uses by the private sector. NASA remains a leading force in scientific research and in stimulating public interest in aerospace exploration, as well as science and technology in general. Perhaps more importantly, our exploration of space has taught us to view the Earth, ourselves, and the universe in a new way. While the tremendous technical and scientific accomplishments of NASA demonstrate vividly that humans can achieve previously inconceivable feats, we also are humbled by the realization that Earth is just a tiny "blue marble" in the cosmos. www.nasa.gov.

GENERAL MOTORS

General Motors, one of the world's largest automakers, traces its roots back to 1908. With its global headquarters in Detroit, GM employs 209,000 people in every major region of the world and does business in some 140 countries. GM and its strategic partners produce cars and trucks in 34 countries, and sell and service these vehicles through the following brands: Buick, Cadillac, Chevrolet, GMC, GM Daewoo, Holden, Opel, Vauxhall and Wuling. GM's largest national market is the United States, followed by China, Brazil, the United Kingdom, Canada, Russia and Germany. GM's OnStar subsidiary is the industry leader in vehicle safety, security and information services. General Motors acquired operations from General Motors Corporation on July 10, 2009, and references to prior periods in this and other press materials refer to operations of the old General Motors Corporation. More information on the new General Motors can be found at www.gm.com.

SPACE DAY

The Space Day Program, established and sponsored by Lockheed Martin, was created to broaden the scope of this unique educational initiative. The Space Day Program implements educational activities aimed at strengthening science, math, and technology education. The Space Day Program acts as a platform for collaborative efforts to motivate more students to pursue careers in math, science and engineering.

Lockheed Martin and the Space Day Program are proud to bring you SPACE: A Journey to Our Future, just one of the many channels through which Space Day is celebrated in local communities across the country. www.spaceday.org.

NATIONAL SCIENCE TEACHERS ASSOCIATION

The Arlington, VA-based National Science Teachers Association is the largest professional organization in the world promoting excellence and innovation in science teaching and learning for all. NSTA's current membership includes more than 55,000 science teachers, science supervisors, administrators, scientists, business and industry representatives, and others involved in science education. Learn more about NSTA on www.nsta.org.

EVERGREEN EXHIBITIONS

Founded in 1992, Evergreen Exhibitions (formerly Clear Channel Exhibitions) is one of the world's premier providers of traveling museum exhibits. Evergreen conceptualizes, designs, produces, markets and tours its exhibits, in science, natural history and children's museums. The exhibitions use educational concepts to create high quality, immersive, multi-sensory, entertaining and educational experiences for family audiences. Evergreen also organizes art exhibitions. More than 80 million people worldwide have enjoyed an Evergreen Exhibitions experience. More information on other exhibit offerings can be found at www.evergreenexhibitions.com.

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ABOUT NASA

What Does NASA Do?

NASA's mission is to pioneer the future in space exploration, scientific discovery and aeronautics research.

To do that, thousands of people have been working around the world -- and off of it -- for almost 50 years, trying to answer some basic questions. What's out there in space? How do we get there? What will we find? What can we learn there, or learn just by trying to get there, that will make life better here on Earth?

A Little History

President Dwight D. Eisenhower established the National Aeronautics and Space Administration in 1958, partially in response to the Soviet Union's launch of the first artificial satellite the previous year. NASA grew out of the National Advisory Committee on Aeronautics (NACA), which had been researching flight technology for more than 40 years.

President John F. Kennedy focused NASA and the nation on sending astronauts to the moon by the end of the 1960s. Through the Mercury and Gemini projects, NASA developed the technology and skills it needed for the journey. On July 20, 1969, Neil Armstrong and Buzz Aldrin became the first of 12 men to walk on the moon, meeting Kennedy's challenge.

Meanwhile, NASA was continuing the aeronautics research pioneered by NACA. It also conducted purely scientific research and worked on developing applications for space technology, combining both pursuits in developing the first weather and communications satellites.

After Apollo, NASA focused on creating a reusable ship to provide regular access to space: the space shuttle. First launched in 1981, the space shuttle has had 120 successful flights. In 2000, the United States and Russia established permanent human presence in space aboard the International Space Station, a multinational project representing the work of 16 nations.

NASA also has continued its scientific research. In 1997, Mars Pathfinder became the first in a fleet of spacecraft that will explore Mars in the next decade, as we try to determine if life ever existed there. The Terra and Aqua satellites are flagships of a different fleet, this one in Earth orbit, designed to help us understand how our home world is changing. NASA's aeronautics teams are focused on improved aircraft travel that is safer and cleaner.

Throughout its history, NASA has conducted or funded research that has led to numerous improvements to life here on Earth.

Organization

NASA Headquarters, in Washington, provides overall guidance and direction to the agency, under the leadership of NASA Acting Administrator Christopher J. Scolese. Ten field centers and a variety of installations conduct the day-to-day work, in laboratories, on air fields, in wind tunnels and in control rooms.

NASA Today

NASA conducts its work in four principle organizations, called mission directorates:

- **Aeronautics:** pioneers and proves new flight technologies that improve our ability to explore and which have practical applications on Earth.
- **Exploration Systems:** creates new capabilities and spacecraft for affordable, sustainable human and robotic exploration
- **Science:** explores the Earth, moon, Mars and beyond; charts the best route of discovery; and reaps the benefits of Earth and space exploration for society.
- **Space Operations:** provides critical enabling technologies for much of the rest of NASA through the space shuttle, the International Space Station and flight support.

In the early 21st century, NASA's reach spans the universe. Spirit and Opportunity, the Mars Exploration Rovers, are still studying Mars after more than three years. Cassini is in orbit around Saturn. The Hubble Space Telescope continues to explore the deepest reaches of the cosmos.

Closer to home, the latest crew of the International Space Station is extending the permanent human presence in space. Earth Science satellites are sending back unprecedented data on Earth's oceans, climate and other features. NASA's aeronautics team is working with other government organizations, universities, and industry to fundamentally improve the air transportation experience and retain our nation's leadership in global aviation.

The Future

In the next 20 years, NASA will be laying the groundwork for sending humans not only beyond Earth's orbit, but further into to space than they've ever been. The next key steps are:

- Complete the International Space Station and retire the Space Shuttle by 2010
- Begin robotic missions to the moon by 2008 and return people there by 2020
- Continue robotic exploration of Mars and the Solar System
- Develop a crew exploration vehicle and other technologies required to send people beyond low Earth orbit.

Though nearly 50 years old, NASA is only beginning the most exciting part of its existence.

("About NASA" courtesy www.nasa.gov)

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ABOUT SPACE DAY

Since its launch in 1997, the Lockheed Martin Space Day educational initiative, which takes place on the first Friday of each May, has evolved into a massive grassroots effort dedicated to the extraordinary achievements, benefits and opportunities in the exploration and use of space. The ultimate goal is to promote math, science, technology and engineering education by nurturing young peoples' enthusiasm for the wonders of the universe and inspiring them to continue the stellar work of today's space explorers. International in scope, the award-winning program involves hundreds of thousands of teachers and millions of students throughout the United States, Canada and beyond. Space Day events have taken place in 21 countries around the globe on six continents. Thanks to widespread media, millions of people have learned about the Space Day programs since its inception. So effective is this global initiative that it has been honored with the Space Foundation's prestigious Education Achievement Award.

Space Day is a collaborative partner in "Space: A Journey to Our Future," which was developed in educational collaboration with NASA as well as Space Day, and sponsored nationally by General Motors.

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SPACE EXHIBIT PHOTOGRAPHY LEGEND

1. **Camp Viking**

Visitors are provided with all the information and tools to plan, design and execute a mission to Mars. By factoring in variables such as water supply, fuel supply, spacecraft design, etc., the participant learns if his or her mission will be successful based on what we know of space travel today.

2. **Future Theater**

Visitors peer deep into space and far into the future in this narrated multi-dimensional video theater. Topics include the search for life in space, worm holes, dark matter and warp drive, and our potential to probe into regions far into the universe.

3. **Moon Rock**

Visitors have an opportunity to touch a lunar sample.

4. **Constellation Interactive**

Using innovative motion-activated signals, visitors can 'build' the next-generation spacecraft that will take humans back to the moon.

5. **Probing the Universe Interactive**

Visitors can choose from a range of videos that explore interactive probes and satellites from recent and current missions, to learn how they give us close-up views and data on the planets in our solar system, many moons, and even comets and asteroids.

6. **Cyclitron**

A self-powered cyclitron, or 'space bike,' acts as a centrifuge in recreating the sensation of g-force pressure.

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