



www.smithsonianconference.org **Apollo Space Program: Virtual Conference**

Source: www.smithsonianconference.org

Join experts from the Smithsonian National Air and Space Museum for the Apollo Space Program Virtual Conference, a FREE one-day online conference. Forty years ago the Apollo Space Program met President ...

<http://www.smithsonianconference.org/apollo/>



Infant neutron star observed for first time

Source: www.telegraph.co.uk

An infant neutron star, the super-dense core of a stellar explosion, has been observed for the first time.

<http://www.telegraph.co.uk/science/space/6501955/Infant-neutron-star-observed-for-first-time.html>



Orbiter camera sees ice-covered Phoenix lander

Source: www.spaceflightnow.com

A sharp-eyed camera aboard NASA's Mars Reconnaissance Orbiter has spotted the Phoenix lander encased in dry ice in the depths of winter on the northern polar plains of Mars.

<http://www.spaceflightnow.com/news/n0911/04phoenix/>

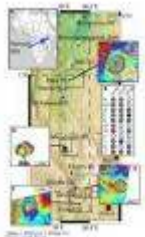


First Martian Weatherman Forecasts Conditions on Red Planet

Source: www.popsci.com.au

While much of the scientific community ponders the possibility of life on Mars, Atmospheric Sciences Professor Istvan Szunyogh of Texas A&M University is more concerned with finding out if there is ...

<http://www.popsci.com.au/technology/article/2009-11/first-martian-weatherman-forecasts-conditions-red-planet>



Study uses satellite imagery to identify active magma systems in East Africa's Rift Valley

Source: www.physorg.com

A team from University of Miami, University of El Paso and University of Rochester used Interferometric Synthetic Aperture Radar (InSAR) images compiled over a decade to study volcanic activity in the African Rift. ...

<http://www.physorg.com/news176568453.html>



Darwinian evolutionary theory will help find alien life says Nasa scientist

Source: www.telegraph.co.uk

Charles Darwin's theory of evolution may give pointers in the search for alien life, says a Nasa astrobiologist.

<http://www.telegraph.co.uk/science/space/6500471/Darwinian-evolutionary-theory-will-help-find-alien-life-says-Nasa-scientist.html>

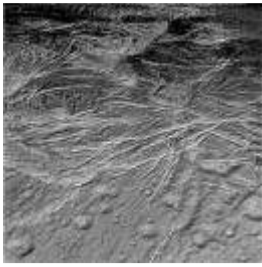


Device Like 'Star Trek' Replicator Might Fly on Space Station

Source: www.space.com

NASA engineers have developed electron beam fabrication technology that may remind people of Star Trek's replicator, and awaits launch for testing on the International Space Station.

<http://www.space.com/business/technology/091104-tw-3d-replicator.html>



[Spaceflight Now | Breaking News | Cassini tastes icy material from Saturn moon geyser](#)

Source: www.spaceflightnow.com

The Cassini spacecraft touring Saturn is beaming back data and stunning imagery from Monday's flyby of Enceladus, an enigmatic ice-covered moon with geysers of material spewing from fissures on the surface.

<http://www.spaceflightnow.com/news/n0911/04enceladus/>



[Ares 1-X | NASA juggles manifest for future Ares test flights](#)

Source: www.spaceflightnow.com

One week after the first major flight test of the agency's new Ares 1 rocket, NASA is closer to cancelling a demonstration launch called Ares 1-Y, potentially replacing it with a new, still undefined test flight in 2012 or 2013.

<http://www.spaceflightnow.com/ares1x/091104ares1y/>



[JAXA Releases KAGUYA \(SELENE\) Data Archives To The Public](#)

Source: www.moondaily.com

Tokyo, Japan (SPX) Nov 03, 2009 - The Japan Aerospace Exploration Agency (JAXA) released data from the lunar explorer KAGUYA (SELENE) (L2 products) during the nominal operation phase (from December 21, 2007 to October 31, 2008) to the public through the Internet. ...

http://www.moondaily.com/reports/JAXA_Releases_KAGUYA_SELENE_Data_Archives_To_The_Public_999.html



[Planets 'spotted' outside our own galaxy for first time](#)

Source: www.telegraph.co.uk

Astronomers have discovered evidence of alien planets outside our own galaxy for the first time.

<http://www.telegraph.co.uk/science/space/6493006/Planets-spotted-outside-our-own-galaxy-for-first-time.html>

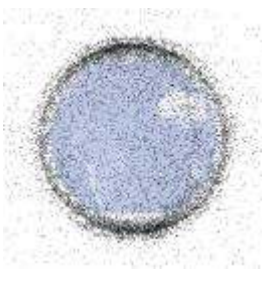


[Kepler telescope glitch may slow search for alien worlds](#)

Source: www.telegraph.co.uk

A technical glitch on the Kepler space telescope may mean that the search for Earth-like planets around alien suns will take longer than anticipated.

<http://www.telegraph.co.uk/science/space/6492581/Kepler-telescope-glitch-may-slow-search-for-alien-worlds.html>



[Space Junk Could Be Tracked Like Vultures | Wired Science | Wired.com](#)

Source: www.wired.com

Dangerous debris near rocket launches could be tracked in real time by combining tricks from particle colliders, moon landings and vulture tracking, a new

<http://www.wired.com/wiredscience/2009/11/space-junk-tracking/>



['Ultra-primitive' particles found in comet dust](#)

Source: www.physorg.com

Dust samples collected by high-flying aircraft in the upper atmosphere have yielded an unexpectedly rich trove of relicts from the ancient cosmos, report scientists from the Carnegie Institution. The stratospheric ...

<http://www.physorg.com/news176400764.html>



[**SPACE.com -- Huge Galaxy Cluster Hints at Universe's Skeleton**](#)

Source: www.space.com

Newfound cluster of galaxies hint at structure of the universe's cosmic web.
<http://www.space.com/scienceastronomy/091103-galaxies-cosmic-web.html>



[**China's military making strides in space: US general**](#)

Source: www.spacedaily.com

Washington (AFP) Nov 3, 2009 - China's military has made dramatic progress in space over the past decade and the goals of its program remain unclear, a top American general said on Tuesday.

http://www.spacedaily.com/reports/Chinas_military_making_strides_in_space_US_general_999.html



[**SMOS Forms Three-Pointed Star In The Sky**](#)

Source: www.spacemart.com

Paris, France (ESA) Nov 04, 2009 - Following the launch of ESA's SMOS satellite on 2 November, the French space agency CNES, which is responsible for operating the satellite, has confirmed that the instrument's three antenna arms have deployed as planned, and that the instrument is in good health.

http://www.spacemart.com/reports/SMOS_Forms_Three_Pointed_Star_In_The_Sky_999.html



[**Ares 1-X | Aerial video provides view of Ares 1-X parachute trouble**](#)

Source: www.spaceflightnow.com

NASA released spectacular footage Monday from an aircraft stationed near the landing site of the Ares 1-X first stage booster, showing remarkable views of liftoff, the botched parachute deployment and splashdown.

<http://www.spaceflightnow.com/ares1x/091102video/>



[**ESA Giotto | exOTC Website For exOTC Staff and Friends**](#)

Source: exotc.com

Here is a minor job I did in 1986 in support of ESA's Giotto probe. Back then a lot was riding on me to get this fixed. The Parkes Radio Telescope tracked the encounter with Halley's comet. I am in the Sydney Uni pullover. Note the graph of signal strength after dust impact as the craft wobbled and it slowly stabilised.

http://exotc.com/wordpress/?page_id=382



[**Dark matter wrecking ball may have hit Milky Way - USATODAY.com**](#)

Source: www.usatoday.com

Darth Vader's Death Star? Ming the Merciless and his war rockets? The awesome power of Chuck Norris?...

http://www.usatoday.com/tech/science/columnist/vergano/2009-10-30-dark-matter_N.htm

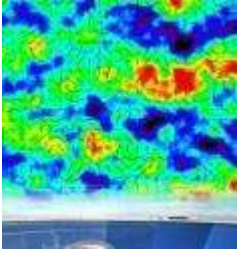


[**Solar Winds Triggered By Magnetic Fields - Space News - redOrbit**](#)

Source: www.redorbit.com

Solar wind generated by the sun is probably driven by a process involving powerful magnetic fields, according to a new study led by UCL researchers based on the latest observations from the Hinode satellite.

http://www.redorbit.com/news/space/1778940/solar_winds_triggered_by_magnetic_fields/index.html?source=r_space



[High-precision measurements confirm cosmologists' standard view of the universe](#)

Source: esciencenews.com

A detailed picture of the seeds of structures in the universe has been unveiled by an international team co-led by Sarah Church of the Kavli Institute for Particle Astrophysics and Cosmology, jointly located ...

<http://esciencenews.com/articles/2009/11/02/high.precision.measurements.confirm.cosmologists.standard.view.universe>

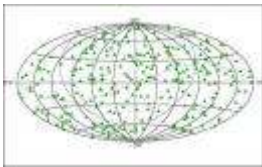


[Nasa to irradiate monkeys to study effects of long space trips on humans](#)

Source: www.telegraph.co.uk

Nasa is to expose squirrel monkeys to daily radiation doses to help them understand the effects of long space trips on humans.

<http://www.telegraph.co.uk/science/space/6485215/Nasa-to-irradiate-monkeys-to-study-effects-of-long-space-trips-on-humans.html>



[Nasa space map uses quasars to guide GPS satnavs](#)

Source: www.telegraph.co.uk

A new Nasa map of the universe, calibrated using mysterious quasars a billion times brighter than the Sun, is being used to guide drivers' satnav systems. <http://www.telegraph.co.uk/science/space/6485790/Nasa-space-map-uses-quasars-to-guide-GPS-satnavs.html>



[Mars gullies flow with Martian mud > News in Science \(ABC Science\)](#)

Source: www.abc.net.au

To better understand the Martian features, the researchers compared them to similar patches in the Atacama Desert (Source: Jon Clarke)

<http://www.abc.net.au/science/articles/2009/11/02/2730827.htm>



[Spaceflight Now | HTV Mission Report | History-making Japanese space mission ends in flames](#)

Source: spaceflightnow.com

Packed with garbage from the International Space Station, the first HTV cargo freighter met a fiery demise over the Pacific Ocean on Sunday, punctuating an historic chapter in the Japanese space program.

<http://spaceflightnow.com/h2b/htv1/091101reentry/>



[Spaceflight Now | Rockot Launch Report | European satellite to launch from Russian cosmodrome](#)

Source: www.spaceflightnow.com

Europe is preparing to launch a new satellite to unravel the mysteries of Earth's water cycle, shedding new light on how moisture is absorbed into the atmosphere and the process's link to climate change.

<http://www.spaceflightnow.com/rockot/smos/091101preview/>



[Masten Space Systems takes lead in Lunar Lander Challenge -- latimes.com](#)

Source: www.latimes.com

The Masten Space Systems rocket lifts off from the launchpad Friday. The effort appeared to move Masten into the lead of the \$2-million Northrop Grumman Lunar Landing Challenge. (Mike Masee / October 30, 2009)

http://www.latimes.com/news/nationworld/nation/la-sci-rocket31-2009oct31_0,1355726.story



[GPS satellite beset by permanent signal problem](#)

Source: spaceflightnow.com

A Global Positioning System satellite launched in March is suffering from permanent signal distortions and will miss its target to enter operational service this year, Air Force officials said.

<http://spaceflightnow.com/news/n0911/02gps/>



[Eye Of JWST Marks Major Milestone As Mission Moves Forward](#)

Source: www.spacedaily.com

Redondo Beach CA (SPX) Oct 29, 2009 - The telescope element of NASA's James Webb Space Telescope (JWST), built by Northrop Grumman Corporation (NYSE:NOC - News), has successfully passed a critical design ...

http://www.spacedaily.com/reports/Eye_Of_JWST_Marks_Major_Milestone_As_Mission_Moves_Forward_999.html



[Mars Rover Spirit Has Amnesia Again](#)

Source: www.space.com

NASA's Mars rover Spirit is suffering a new bout of amnesia.

<http://www.space.com/missionlaunches/091030-spirit-mars-rover-amnesia.html>



[HTV cargo ship departs International Space Station](#)

Source: www.spaceflightnow.com

Japan's first cargo-carrying freighter was set free from the International Space Station on Friday, beginning its new role as a garbage scow loaded with 1,600 pounds of trash from the complex.

<http://www.spaceflightnow.com/h2b/htv1/091030departure/>

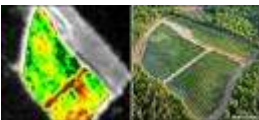


[Ariane 5 rocket places two satellites into orbit \(w/ Video\)](#)

Source: www.physorg.com

(PhysOrg.com) -- Last night, an Ariane 5 ECA launcher lifted off from Europe's Spaceport in French Guiana on a journey to place two telecommunications satellites, NSS-12 and Thor 6, into geostationary transfer orbits. ...

<http://www.physorg.com/news176108788.html>



[Rocket booster damaged on return](#)

Source: news.bbc.co.uk

The booster used on the Ares 1-X test rocket on Wednesday was damaged when it fell back into the ocean, the US space agency (Nasa) says.

<http://news.bbc.co.uk/2/hi/science/nature/8334951.stm>



[English wine gets help from space](#)

Source: news.bbc.co.uk

The Oenoview system, first launched in France last year, analyses the images to determine vine leaf density, soil water content and grape bunch sizes.

<http://news.bbc.co.uk/2/hi/science/nature/8334688.stm>



[NASA - A Mars Rover Named "Curiosity"](#)

Source: science.nasa.gov

October 30, 2009: If you found your grandmother's diary, tattered and dust covered, up in the attic, would you read it? Of course you would. Granny was a pistol! Brush off the dust, open up the little book, and foray into her lively and interesting past.

http://science.nasa.gov/headlines/y2009/30oct_curiosity.htm



[SPACE.com -- NASA Hails New Moon Rocket's First Test Launch](#)

Source: www.space.com

The apparent success of NASA's first test flight of a new experimental moon rocket has the American space agency beaming with joy.

<http://www.space.com/missionlaunches/091028-ares-1x-post-launch.html>



[NASA rocket launch advances Moon mission dream](#)

Source: www.space-travel.com

Cape Canaveral, Florida (AFP) Oct 28, 2009 - NASA successfully launched Wednesday the prototype for a new generation of space rocket, advancing its plans to return man to the Moon by 2020.

http://www.space-travel.com/reports/NASA_rocket_launch_advances_Moon_mission_dream_999.html

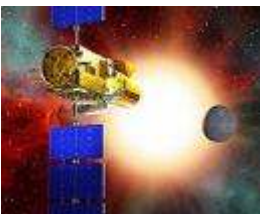


[Eye Of JWST Marks Major Milestone As Mission Moves Forward](#)

Source: www.spacedaily.com

Redondo Beach CA (SPX) Oct 29, 2009 - The telescope element of NASA's James Webb Space Telescope (JWST), built by Northrop Grumman Corporation (NYSE:NOC - News), has successfully passed a critical design ...

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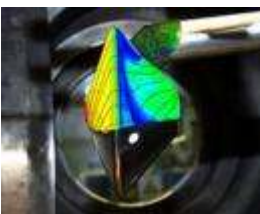


[CoRoT Mission Extended Until 2013](#)

Source: www.spacedaily.com

Paris, France (ESA) Oct 29, 2009 - Satellite operations for the CoRoT mission have been extended until 31 March 2013. The decision by the French Space Agency, CNES, and the mission partners, including ESA, was taken on 23 October at a specially convened meeting at the CNES Headquarters in Paris.

http://www.spacedaily.com/reports/CoRoT_Mission_Extended_Until_2013_999.html



[DLR Simulates Mars' Atmosphere In Gottingen](#)

Source: www.marsdaily.com

Gottingen, Germany (SPX) Oct 28, 2009 - Is the Earth the only place in our Solar System on which living organisms exist? Is there, for example, life on Mars? The goal of the European space mission ExoMars is to resolve this question. ...

http://www.marsdaily.com/reports/DLR_Simulates_Mars_Atmosphere_In_Gottingen_999.html



[Martian Projects Shall Use Nuclear Energy](#)

Source: www.marsdaily.com

Moscow, Russia (XNA) Oct 28, 2009 - The future Mars manned exploration projects will only become true by using nuclear energy, said President and Chief Designer of Russia's Energia Aerospace Corporation Vitaly Lopota here on Monday.

http://www.marsdaily.com/reports/Martian_Projects_Shall_Use_Nuclear_Energy_999.html

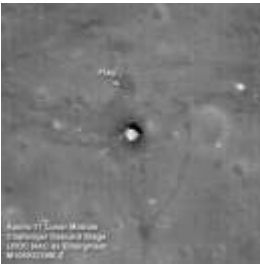


[India Set To Join Exclusive Cryogenic Club](#)

Source: www.space-travel.com

Chennai, India (PTI) Oct 28, 2009 - After its maiden moon mission, the Indian Space Research Organisation (ISRO) is hoping to cross another milestone in December - take India into the exclusive club of countries that have developed their own cryogenic engines to power satellites in space.

http://www.space-travel.com/reports/India_Set_To_Join_Exclusive_Cryogenic_Club_999.html



[Exploring the Apollo 17 Site - LROC News System](#)

Source: lroc.sese.asu.edu

The Apollo 17 Lunar Module Challenger descent stage comes into focus from the new lower 50-km mapping orbit, image width is 102 meters [NASA/GSFC/Arizona State University].

<http://lroc.sese.asu.edu/news/?archives/137-Exploring-the-Apollo-17-Site.html>



[ESA - Rosetta - Rosetta lined up nicely for Earth approach](#)

Source: www.esa.int

Following the first and primary trajectory correction manoeuvre 22 October, Rosetta is lined up nicely for the approach to Earth. The manoeuvre provided an 8.8 cm/s change in orbital velocity and the thruster performance was accurate. ...

http://www.esa.int/SPECIALS/Rosetta/SEMZJVZRA0G_0.html



[Robot armies 'will explore alien worlds'](#)

Source: www.telegraph.co.uk

Alien worlds may be explored by armies of flying, driving and sailing robots, say scientists.

<http://www.telegraph.co.uk/science/space/6452022/Robot-armies-will-explore-alien-worlds.html>



[Spaceflight Now | Ares 1-X Mission Report | Ares 1-X rocket blasts off!](#)

Source: www.spaceflightnow.com

The first experimental test flight of the hardware NASA is developing to replace the space shuttle was launched at 11:30 a.m. EDT from Kennedy Space Center's modified pad 39B.

<http://www.spaceflightnow.com/ares1x/091028gallery/>



[Found: first 'skylight' on the moon - space - 22 October 2009](#)

Source: www.newscientist.com

A hole in the lunar surface has been found that could lead to a vast underground tunnel – it could one day provide shelter for human settlers

<http://www.newscientist.com/article/dn18030-found-first-skylight-on-the-moon.html>



[Asteroid explosion over Indonesia raises fears about Earth's defences](#)

Source: www.telegraph.co.uk

An asteroid that exploded in the Earth's atmosphere with the energy of three Hiroshima bombs this month has reignited fears about our planet's defences against space impacts.

<http://www.telegraph.co.uk/science/space/6444895/Asteroid-explosion-over-Indonesia-raises-fears-about-Earths-defences.html>