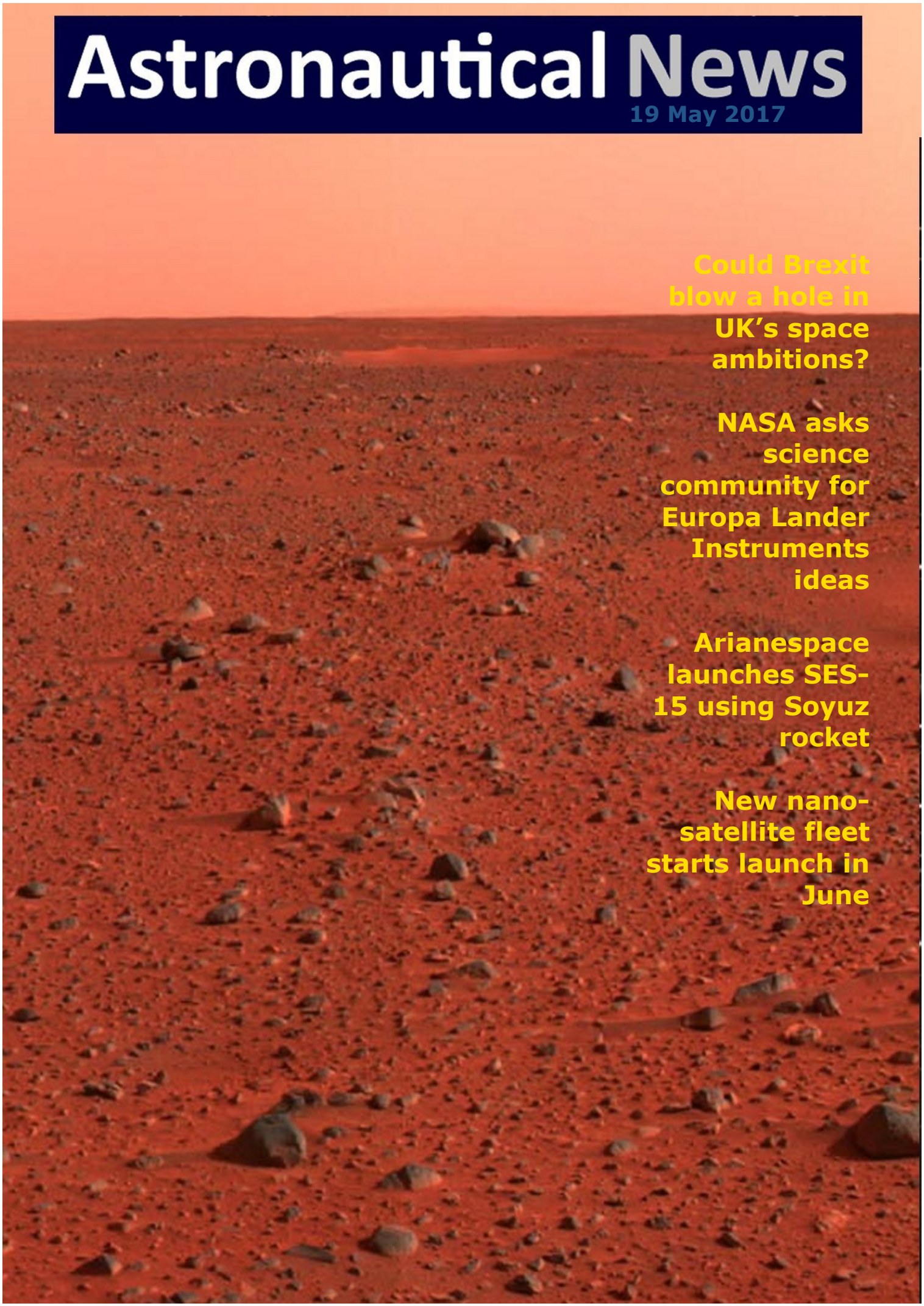
Astronautical News

19 May 2017



Could Brexit blow a hole in UK's space ambitions?

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In cooperation with
The British Interplanetary Society

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Could Brexit blow a hole in UK's space ambitions? There are possible effects on the long-established cooperation of the UK and ESA.

New nano-satellite fleet starts launch in June An Australian-backed company is to launch the first three of a planned fleet of 200 new nano-satellites in the third week of June. Sky and Space Global (SAS) says the satellites will provide affordable communication services to those who are currently underserved across the equatorial belt.

SpaceX launches Inmarsat Global Xpress satellite A SpaceX Falcon 9 rocket successfully launched the fourth Inmarsat Global Xpress satellite on May 15.

US military satellites in crisis as foreign weapons advance and proliferate The U.S. military's satellite communications are facing a crisis, threatened by a growing array of foreign weapons, including cyberattack capabilities, lasers, electronic jammers and anti-satellite weapons, according to a Pentagon study. An executive summary of the report by the Defense Science Board warns that military satellite communications used for global operations "will be contested by a myriad of effects ranging from reversible to destructive."

Students design ways to mine the Moon for rocket fuel To get us to Mars and beyond, a team of students from around the world has a plan involving lunar rovers mining ice and a space station between the Earth and the Moon.

Rocket Lab sets date for first electron launch Rocket Lab, the U.S.-New Zealand company developing the Electron small launch vehicle, plans to carry out its first flight in a window that opens May 21.

Blue Origin suffers BE-4 testing mishap Blue Origin said that it suffered a setback in the development of its BE-4 engine with the loss of a key hardware component of the engine in a recent test.

NASA asks science community for Europa Lander Instruments ideas NASA is asking scientists to consider what would be the best instruments to include on a mission to land on Jupiter's icy moon, Europa. NASA informed the science community to prepare for a planned competition to select science instruments for a potential Europa lander.

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Lithuania start-up to test new cubesat propulsion system NanoAvionics, a space technology start-up based in Lithuania, will test a new "green" propulsion system for CubeSats in orbit this month to finalise the product for a commercial launch. The company will test the propulsion system on LituanicaSat 2, which was developed in partnership with Vilnius University as part of the QB50 atmospheric research mission. It 2 is scheduled to fly atop ISRO's Polar Satellite Launch Vehicle (PSLV).

Airbus Friedrichshafen: new satellite hub lays groundwork for the future With the ceremonial laying of the foundation stone for the new Integrated Technology Centre (ITC), Airbus marks the commencement of the intensive construction phase for its new euro 43 million satellite hub. The ultra-modern building, for the development and integration of satellites, will enable the Friedrichshafen site to handle future satellite requirements.

Washington still has no engine to replace Russian-made RD-180 US aerospace company Blue Origin suffered a setback while testing its Blue Engine 4 (BE-4), a staged-combustion rocket engine designed to replace Russian-made RD-180s, meaning that Washington still does not have an indigenously built version of a key piece of equipment needed to propel its Atlas V launch vehicles or its analogues into space.

Airbus Safran Launchers to become ArianeGroup Airbus Safran Launchers, the joint venture created at the initiative of the Airbus and Safran groups in order to reorganize the European launchers sector, is to be known as ArianeGroup. The change in corporate name will be effective as of July 1, 2017.

Recent Launch Activities

Arianespace launches SES-15 using Soyuz rocket Arianespace has orbited the SES-15 telecommunications satellite for European operator SES. Liftoff took place on Thursday, May 18 at 8:54 a.m. (local time in Kourou) from the Guiana Space Center (CSG), Europe's Spaceport in French Guiana. This launch was the fifth of the year for Arianespace, and the second by Soyuz from CSG to geostationary transfer orbit (GTO).
(19 May 2017)

SpaceX launches Inmarsat Global Xpress satellite A SpaceX Falcon 9 rocket successfully launched the fourth Inmarsat Global Xpress satellite on May 15.
(16 May 2017)

Arianespace orbits telecom satellites for Brazil and South Korea Arianespace has successfully launched two telecommunications satellites: SGDC for Visiona Tecnologia Espacial S.A, on behalf of the Brazilian operator Telebras S.A. and the Brazilian government; and KOREASAT-7 for South Korean operator ktsat. The launch took place on May 4 at 6:50 pm (local time) from the Guiana Space Centre.
(6 May 2017)

India launches satellite for South Asian countries In a first, India's space agency launched a satellite Friday to provide communications services to its neighboring countries. The South Asia satellite, funded entirely by India, was announced several years ago with the intention of serving all eight members of the South Asian Association for Regional Cooperation (SAARC).
(5 May 2017)

Development Activities

NASA asks science community for Europa Lander Instruments ideas NASA is asking scientists to consider what would be the best instruments to include on a mission to land on Jupiter's icy moon, Europa. NASA informed the science community to prepare for a planned competition to select science instruments for a potential Europa lander.
(19 May 2017)

Testing prepares Space Launch System for liftoff The world's most powerful rocket - NASA's Space Launch System (SLS) - may experience ground wind gusts of up to 70 mph as it sits on the launch pad before and during lift off for future missions. Understanding how environmental factors affect the rocket will help calculate a safe and reliable distance away from the launch tower during launch.
(14 May 2017)

Winning plans for CubeSats to the Moon If you could fly a CubeSat to the Moon, what could such a tiny satellite do there? ESA posed this question - and now four proposals will be studied in more detail for possible flight over the coming decade.
(14 May 2017)

NASA's Mars plans include a one-year mission to the Moon Before sending a manned mission to Mars in the 2030s, NASA may have a group of astronauts spend a year in orbit around the moon, officials from the space agency's Human Exploration and Operations Mission Directorate revealed earlier this week at an event in Washington DC.
(13 May 2017)

NASA Receives Proposals for Future Solar System Mission NASA has received and is reviewing 12 proposals for future unmanned solar system exploration. The proposed missions of discovery - submitted under NASA's New Frontiers program - will undergo scientific and technical review over the next seven months. The goal is to select a mission for flight in about two years, with launch in the mid-2020s.
(9 May 2017)

Going Back to Pluto? Scientists to Push for Orbiter Mission The first up-close look at Pluto was so intriguing that some researchers want to go back and spend a lot more time studying the icy world.
(9 May 2017)

Japan aims to uncover how moons of Mars formed The Japan Aerospace Exploration Agency (JAXA) has announced a mission to visit the two moons of Mars and return a rock sample to Earth. It's a plan to uncover both the mystery of the moons' creation and, perhaps, how life began in our Solar System.
(4 May 2017)

China to conduct several manned space flights around 2020 China plans to conduct several manned space flights from 2019 to 2022, during which a 60-tonne space station will be assembled and built, said Wang Zhaoyao, director of China's manned space programme office.
(2 May 2017)

ISS Activities

Landmark 200th Space Station spacewalk starts with glitch but ends in 'awesomesauce' Astronauts sped through the landmark 200th spacewalk at the International Space Station, after a glitch in preparations left them looking at a shortened trip outside.
(13 May 2017)

Dark matter probe on Space Station to be revitalized After six years in space, the Alpha Magnetic Spectrometer (AMS), a sensitive particle detector aboard the International Space Station, is being prepared for a cooling system retrofit to keep the instrument operational until the station's retirement in 202
(12 May 2017)

ISS investigation aims to identify unknown microbes in space Building on the ability to sequence DNA in space and previous investigations, Genes in Space-3 is a collaboration to prepare, sequence and identify unknown organisms, entirely from space.
(1 May 2017)

Cygnus docks with ISS, delivering 28 Cubesats from multiple customers Orbital ATK's Cygnus (OA-7) spacecraft successfully berthed to the International Space Station (ISS) after launching 18 April. This mission is NanoRacks' largest CubeSat mission to date - carrying 38 CubeSats to be deployed from NanoRacks deployers on both the ISS and on the outside of Cygnus.
(24 April 2017)

Two new crew members arrive at International Space Station After a six-hour flight, NASA astronaut Jack Fischer and cosmonaut Fyodor Yurchikhin of the Russian space agency Roscosmos arrived at the International Space Station at 9:23 a.m. EDT Thursday where they will continue important scientific research.
(21 April 2017)

Space Tourism

Virgin Galactic Aims to Fly Space Tourists in 2018, CEO Says Richard Branson's Virgin Galactic is on track to begin commercial passenger spaceflights before the end of 2018, the company's chief executive said.
(1 May 2017)

New nano-satellite fleet starts launch in June An Australian-backed company is to launch the first three of a planned fleet of 200 new nano-satellites in the third week of June. Sky and Space Global (SAS) says the satellites will provide affordable communication services to those who are currently underserved across the equatorial belt.
(18 May 2017)

Novel use of satnav saves precious water Water conservation is a growing concern globally, and particularly for farmers in the USA, where decades of irrigating huge fields has depleted vital resources of fresh surface water and groundwater. An ESA spin-off that can help to preserve water supplies while guaranteeing crop irrigation is now undergoing final testing.
(15 May 2017)

Iridium deploys first 10 Next satellites Iridium Communications has integrated the first set of its Next satellites into the existing operational constellation to improve communications for shipping. This followed a rigorous testing and validation process of the 10 satellites in orbit.
(11 May 2017)

New look at satellite data questions scale of China's afforestation success China has invested more resources than any other country in reversing deforestation and planting trees. However, given the large scale of these programmes it has been difficult to quantify their impact on forest cover. A new study shows that much of China's new tree cover consists of sparse, low plantations as opposed to large areas of dense, high tree cover.
(8 May 2017)

Satellites track Antarctic ice loss over decades Over two decades of observations by five radar satellites show the acceleration of ice loss of 30 glaciers in Western Palmer Land in the southwest Antarctic Peninsula.
(3 May 2017)

Space debris problem getting worse, say scientists Scientists sounded the alarm over the problems posed to space missions from orbital junk - the accumulating debris from mankind's six-decade exploration of the cosmos. In less than a quarter of a century, the number of orbiting fragments large enough to destroy a spacecraft has more than doubled, a conference in Germany heard.
(19 April 2017)

ESA helps faster cleaner shipping With around 90% of world trade carried by ships, making sure a vessel follows the fastest route has clear economic benefits. By merging measurements from different satellites, ESA is providing key information on ocean currents, which is not only making shipping more efficient but is also helping to reduce carbon dioxide emissions.
(18 April 2017)

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(15 April 2017)

China considering cooperation with Russia on space debris China is contemplating developing cooperation with Russia with respect to space debris, China's National Space Administration Secretary-General Yulong Tian told Sputnik.
(12 April 2017)

China's BeiDou system to expand cooperation to SE Asia China's home-grown BeiDou Navigation Satellite System (BDS) will expand its cooperation to Thailand and Sri Lanka, and then to the entire Southeast Asia, in a bid to go global, the system's operator has said.
(1 April 2017)

Decommissioned Earth Science satellite to remain in orbit for decades A NASA Earth science satellite whose mission is ending this week will remain in orbit through the middle of the century, far longer than the limit set by orbital debris mitigation guidelines.
(30 March 2017)

Satellites shed new light on earthquakes Satellite radar scans of last year's earthquake in New Zealand are changing the way we are thinking about earthquake hazards in regions where our planet's tectonic plates meet.
(25 March 2017)

ICESat-2 to provide more depth to sea ice forecasts In March, the Arctic sea ice pack is supposed to reach its greatest extent - but this year it's far below average, off by an area about the size of Texas and New Mexico combined. Satellite observations currently reveal how much of the ocean surface is covered by ice, but there is another critical measurement to make.
(23 March 2017)

30 years of deforestation While the world marks the International Day of Forests, satellites continue to monitor the long-term effects of human activities on our planet's precious resources
(22 March 2017)

Copernicus Sentinel-2B delivers its first images Just over a week after being lofted into orbit, the European Union's Sentinel-2B satellite delivered its first images of Earth, offering a glimpse of the 'colour vision' it will provide for the Copernicus environmental monitoring programme.
(16 March 2017)

NASA studies growing Louisiana deltas The Louisiana coastline is sinking under the Gulf of Mexico at the rate of about one football field of land every hour (about 18 square miles of land lost in a year). But within this sinking region, two river deltas are growing. The Atchafalaya River and its diversion channel, Wax Lake Outlet, are gaining about one football field of new land every 11 and 8 hours, respectively.
(28 February 2017)

Using high-resolution satellites to measure African farm yields Stanford researchers have developed a new way to estimate crop yields from space, using high-res photos snapped by a new wave of compact satellites. The approach, detailed in the February 13 issue of the journal of the Proceedings of the National Academy of Sciences, could be used to estimate agricultural productivity and test intervention strategies in poor regions of the world.
(25 February 2017)

Turn satellites into sparkling fireworks to burn up space junk Satellite debris that falls to Earth could be deadly, but pellets made of a heat-generating mixture could help them burn up safely in the atmosphere
(19 February 2017)

100 Earth-shattering remote-sensing applications and uses This list may change the way you feel about how this industry is changing our world and the way we think.
(13 February 2017)

CryoSat reveals lake outbursts beneath Antarctic ice A novel way of using ESA's CryoSat mission has revealed how lakes beneath Thwaites Glacier drained into the Amundsen Sea - potentially the largest such outflow ever reported in this region of West Antarctica.
(11 February 2017)

Keeping space communications reliable for an "always on" world So many of the services we all depend on today are powered by space communications. Without space the world economy, in many ways, turns back half a century in time. For some time now, we have been hearing from the Pentagon that space is no longer the sanctuary it once was.
(7 February 2017)

Fermi satellite observes billionth gamma ray with LAT instrument On April 12, one of the spacecraft's instruments - the Large Area Telescope (LAT), which was conceived of and assembled at the Department of Energy's SLAC National Accelerator Laboratory - detected its billionth extraterrestrial gamma ray.
(15 May 2017)

Astrophysicists find that planetary harmonies around TRAPPIST-1 save it from destruction When NASA announced its discovery of the TRAPPIST-1 system back in February it caused quite a stir, and with good reason. Three of its seven Earth-sized planets lay in the star's habitable zone, meaning they may harbour suitable conditions for life. But one of the major puzzles from the original research describing the system was that it seemed to be unstable.
(14 May 2017)

First results from Jupiter probe show huge magnetism and storms Observations from the Juno spacecraft are confounding astronomers with revelations about the weather and magnetism of our solar system's biggest planet
(5 May 2017)

Cassini radio signal from Saturn picked up after dive The Cassini spacecraft is sending data back to Earth after diving in between Saturn's rings and cloudtops. The probe executed the daredevil manoeuvre on Wednesday - the first of 22 plunges planned over the next five months - while out of radio contact.
(27 April 2017)

NASA's Cassini, Voyager missions suggest new picture of Sun's interaction with galaxy New data from NASA's Cassini mission, combined with measurements from the two Voyager spacecraft and NASA's Interstellar Boundary Explorer, or IBEX, suggests that our sun and planets are surrounded by a giant, rounded system of magnetic field from the sun - calling into question the alternate view of the solar magnetic fields trailing behind the sun in the shape of a long comet tail.
(26 April 2017)

China's first cargo spacecraft docks with space lab China's first cargo spacecraft, Tianzhou-1, successfully completed docking with an orbiting space lab, the Beijing Aerospace Control Center said.
(24 April 2017)

Gaia's snapshot of another galaxy While compiling an unprecedented census of one billion stars in our Galaxy, ESA's Gaia mission is also surveying stars beyond our Milky Way. A new image of M33, also known as the Triangulum galaxy, shows tens of thousands of stars detected by Gaia, including a small stellar census in its star-forming region NGC 604.
(24 April 2017)

Cassini probe heads towards Saturn 'grand finale' Cassini has used a gravitational slingshot around Saturn's moon Titan to put it on a path towards destruction. The flyby swept the probe into an orbit that takes it in between the planet's rings and its atmosphere. This gap-run gives the satellite the chance finally to work out the length of a day on Saturn, and to determine the age of its stunning rings. But the manoeuvre means also that it cannot escape a fiery plunge into Saturn's clouds in September.
(22 April 2017)

NASA and partners survey space weather science NASA scientists worked with scientists and engineers from research institutions and industry during a pair of intensive week-long workshops in order to assess the state of science surrounding this type of space weather.
(22 April 2017)

Saturn moon 'able to support life' Saturn's ice-crusted moon Enceladus may now be the single best place to go to look for life beyond Earth. The assessment comes on the heels of new observations at the 500km-wide world made by the Cassini probe. It has flown through and sampled the waters from a subsurface ocean that is being jetted into space. Cassini's chemistry analysis strongly suggests the Enceladean seafloor has hot fluid vents - places that on Earth are known to teem with life.
(14 April 2017)

New Horizons spacecraft enters hibernation The New Horizons spacecraft has entered hibernation, reported by Johns Hopkins University Applied Physics Laboratory.
(13 April 2017)

Milky Way stars on the move - satellite data used to see into the future The motion of 2 million stars over the course of 5 million years into the future is depicted in this new animation from the European Space Agency. Data from their Gaia Mission was used to create it.
(13 April 2017)

Metal detected in Mars' Atmosphere NASA's MAVEN spacecraft has spotted iron, magnesium and sodium ions ??electrically charged atoms - high up in the Red Planet's atmosphere over the past two years, a new study reports.
(12 April 2017)

Cassini prepares for last plunge NASA's unmanned Cassini spacecraft is preparing for its final plunge into Saturn later this year, after two decades of helping Earth-bound scientists make new discoveries about the sixth planet from the Sun and its mysterious rings.
(8 April 2017)

NASA observations reshape basic plasma wave physics When NASA's Magnetospheric Multiscale - or MMS - mission was launched, the scientists knew it would answer questions fundamental to the nature of our universe - and MMS hasn't disappointed. A new finding, presented in a paper in Nature Communications, provides observational proof of a 50-year-old theory and reshapes the basic understanding of a type of wave in space.
(6 April 2017)

Prolific Mars Orbiter Completes 50,000 Orbits The most data-productive spacecraft yet at Mars swept past its 50,000th orbit this week, continuing to compile the most sharp-eyed global coverage ever accomplished by a camera at the Red Planet. In addition, the spacecraft - NASA's Mars Reconnaissance Orbiter (MRO) - recently aided preparations for NASA's next mission to Mars, the InSight lander.
(3 April 2017)

NASA orbiter shows Mars lost 90 per cent of its CO2 to space The MAVEN spacecraft has completed the key part of its mission: to track down how much argon Mars's atmosphere is giving up as a proxy for carbon dioxide loss
(2 April 2017)

ExoMars: Rover scientists to study Mawrth Vallis option Scientists are going to investigate a second site on Mars as a possible destination to send ESA's 2021 rover. Scientists spent two days considering the options and plumped in the end for Mawrth Vallis - an area rich in clay minerals that must have formed during prolonged rock interactions with water. Mawrth joins Oxia Planum, which was selected for study in 2015.
(29 March 2017)

New treasures from Juno: Jupiter dazzles during fourth close approach Image processor Bjrn Jónsson shares some of his latest stunning images of Jupiter, created using data from NASA's Juno spacecraft.
(28 March 2017)

NASA's SDO sees a stretch of spotless Sun For 15 days starting on March 7, 2017, NASA's Solar Dynamics Observatory, or SDO, returned visible light images of a yolk-like spotless sun. This is the longest stretch of spotlessness since the last solar minimum in April 2010, indicating the solar cycle is marching on toward the next minimum, which scientists predict will occur between 2019- 2020.
(26 March 2017)

China's first cargo spacecraft to make three rendezvous with Tiangong-2 China's first cargo spacecraft Tianzhou-1 is expected to dock with the orbiting Tiangong-2 space lab three times after its planned launch in April, sources said. Tianzhou-1 will be sent into space from the Wenchang Space Launch Center in south China's Hainan Province aboard a Long March-7 Y2 carrier rocket.
(9 March 2017)

Orbiter steers clear of Mars moon Phobos NASA's MAVEN spacecraft performed a previously unscheduled manoeuvre to avoid a collision in the near future with Mars' moon Phobos. The Mars Atmosphere and Volatile EvolutioN (MAVEN) spacecraft has been orbiting Mars for just over two years, studying the Red Planet's upper atmosphere, ionosphere and interactions with the sun and solar wind.
(4 March 2017)

Increasing the sensitivity of next-generation gravitational wave detectors Nearly one year ago the LIGO Collaboration announced the detection of gravitational waves, once again confirming Einstein's theory of General Relativity. This important discovery by the Advanced Laser Interferometer Gravitational-Wave Observatory (aLIGO) has spurred great interest in improving these advanced optical detectors.
(27 February 2017)

Kepler's 'second life' - DLR researchers find six planets In 2009, NASA's Kepler space probe was launched, embarking on a mission to hunt for exoplanets. In 2013, due to the failure of two of its reaction wheels, the mission had to be modified. Mission control managed to change the operational modus and manoeuvre the telescope orbiter into a different position in its orbit around the Sun that enabled the mission to continue.
(24 February 2017)

Wonderful potentially habitable worlds around TRAPPIST-1 Scientists have found seven, Earth-size planets orbiting a star just 40 light years away. Three lie in the habitable zone and could have water on their surfaces.
(23 February 2017)

NASA's Kepler mission could detect exomoons formed by giant impacts The hunt is on for moons orbiting distant exoplanets - but only the most massive "exomoons" may be detectable.
(21 February 2017)

Juno Jupiter probe won't move into shorter orbit NASA's Juno spacecraft won't move into a closer orbit around Jupiter as originally planned, agency officials announced.
(20 February 2017)

Could Brexit blow a hole in UK's space ambitions? There are possible effects on the long-established cooperation of the UK and ESA.
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(17 May 2017)

Bulgarian satellite to launch on reused SpaceX Falcon 9 rocket in June A communications satellite built for a Bulgarian operator will be the second payload to launch on a previously-flown Falcon 9, that operator announced.
(11 May 2017)

NOAA cuts target future polar weather satellites While the National Oceanic and Atmospheric Administration received full funding for its ongoing weather satellite programmes, the agency is looking at options after a cut to a programme for future polar-orbiting weather satellites.
(10 May 2017)

Thales launches communications satellite for Brazil Thales Alenia Space launched two telecommunications satellites, among them the Geostationary Defence and Strategic Communications Satellite (SGDC), into orbit using an Ariane 5 launcher from the Kourou base in French Guiana on Thursday, May 04.
(9 May 2017)

Air Force's X-37B Space Plane Lands in Florida After Record-Breaking Secret Mission The record-breaking, hush-hush mission of the U.S. Air Force's robotic X-37B space plane is finally over.
(8 May 2017)

California plans for collecting taxes on spaceflight The earthly convention of paying taxes may soon extend into outer space, if California regulators have anything to say about it. The state's Franchise Tax Board is seeking public comment on its proposal for computing taxes on commercial space transportation companies..
(7 May 2017)

NASA examines effects of 2017 spending bill on science As members of Congress took credit for NASA funding levels in a fiscal year 2017 omnibus spending bill, the agency's science leadership is examining how those funds will affect its programmes.
(7 May 2017)

US Air Force lines up space launch vehicle investments Orbital ATK, SpaceX and United Launch Alliance are key contenders for the Air Force's EELV launch service investments.
(5 May 2017)

India's Space Agency saves over US$2 billion per year for the country The Indian Space Research Organisation (ISRO) is not just building satellites or driving innovation by sharing its Lithium-ion batteries for powering vehicles, the space agency is helping fishermen locate better catchment areas. By doing this, ISRO is helping India save over $ 2 billion per year, said the ISRO chairman.
(2 May 2017)

Spaceport Prestwick to join forces with Newquay UK bid To win grant funding, Orbital Access will have to show how they will "develop spaceflight capabilities, such as building spaceport infrastructure or adapting launch vehicle technology for use in the UK".
(30 April 2017)

Myanmar plans to set up own satellite system Myanmar is planning to set up a satellite system of its own and to form a steering committee for the purpose, the official Global New Light of Myanmar reported.
(30 April 2017)

MUOS-5 Navy satellite online after engine failure A Navy communications satellite launched from Cape Canaveral Air Force Station last June is now online after a post-launch engine failure, according to builder Lockheed Martin.
(30 April 2017)

China courts international coalition set up to promote space cooperation A coalition was established Sunday in northwest China's Shaanxi Province to promote innovation and cooperation on space exploration under the the Belt and Road Initiative. The coalition, set up in the provincial capital of Xi'an, encompasses 48 universities, research institutes and academic organisations at home and abroad.
(28 April 2017)

ESA boosting its Argentine link with deep space Thanks to some high-tech improvements, ESA's radio dish in Argentina will be ready to receive the rising torrent of scientific data beamed back by future missions exploring deep in our Solar System.
(27 April 2017)

Houston Spaceport Breaks Ground On New Control Tower A new, state-of-the-art air traffic control tower for the city of Houston's Ellington Airport and Spaceport is expected to be operational by the end of next year.
(26 April 2017)

ISRO aims at increasing satellite launches to 12 per year The Indian Space Research Organisation is trying to increase its capacity to deliver by scaling up the frequency of launches to 12 per year from the seven at present by building more satellites and lowering the cost of access to space.
(25 April 2017)

US President signs Commercial Satellite Weather Bill President Trump signed into law this week a weather bill that includes provisions formally authorizing ongoing commercial satellite weather data projects and a study of future weather satellite needs.
(23 April 2017)

Australia's back in the satellite business with a new launch The first Australian-built satellites to be launched in 15 years have been sent to the International Space Station where they will be deployed from. Unlike the enormous satellites Australia uses for telecommunications, each of these new satellites is the size of a loaf of bread. But although small, they may provide a key step in enabling Australia's entry into the global satellite market.
(22 April 2017)

Mongolia launches its first satellite Mongolia launched its first satellite on Wednesday, part of its efforts to make use of new technology to diversify its resource-dependent economy.
(20 April 2017)

Creation of carrier rocket for Baiterek Space Complex to cost Russia $500Mln The director of the joint Kazakh-Russian enterprise JSC Baiterek said that the creation of a carrier rocket for the joint Russian-Kazakh Baiterek Space Complex at the Baikonur cosmodrome will approximately cost Russia $500 million, while the Kazakh side will finance the modernization of the existing facilities at the cosmodrome.
(20 April 2017)

Opportunities

NASA AFRC Internship - NASA (United States)
previous work. Students are given an opportunity to interact with NASA researchers, engineers, and technicians in design, construction, implementation, verification

NASA History Division Internship - NASA (United States)
As part of NASA 's Office of Communications, student interns will assist the NASA History Division by writing our social media posts; writing features for our Web

NASA Journalism and Multimedia Fall Internship - NASA (United States)
INTRODUCTION: NASA invites students working towards degrees in journalism, communications, media relations, science writing, interactive journalism, or broadcast

NASA LaRC: Crew Systems and Aviation Operations - NASA (United States)
NASA is conducting research in the areas of intelligent flight systems, autonomous systems, aviation operations, flight deck systems, and crew

NASA LaRC: Flight Deck Technologies - NASA (United States)
NASA is conducting research into Increasingly Autonomous Systems (IAS) for the flight deck. This work involves computer programming, machine learning, and human in

Business Student Trainee - NASA Pathways Intern - Goddard Space Flight Center (United States)
Tuesday 4/11/2017 (4 day(s) away) ## Job Overview Summary About the Agency The NASA Pathways Intern Program provides students with the opportunity to explore NASA

Copernicus Sentinel3 Spacecraft Operations Engineer
Interested in flight operations for Earth Observation Satellites? A challenging opportunity has arisen for an experienced Spacecraft Operations Engineer to apply their expert experience and knowledge whilst understanding and solving complex issues at the hub of space and satellite activity, EUMETSAT. This is a handson role working in the groundbreaking Copernicus Sentinal3 S3 Spacecraft Operations Team developing the European system for monitoring the Earth using satellites and insitu sensors. This is a unique opportunity to be involved in a mission at all stages prelaunch, commissioning and operations. You will be involved with all activities related to flight operations and the preparation for the launch of the planned Sentinel3B, C, and D spacecraft. You will also be responsible for commissioning Sentinel3 satellites in cooperation with the European Space Agency ESA. As the Sentinel3 Spacecraft Operations Engineer you will take charge of the payload system operations, be involved i...

Data Management Analyst - NASA Open Data Project - Qualified Technical Services, Inc (United States)
Work Location: NASA Ames Research Center (Mountain View, CA) Minimum Citizenship: US Citizen Clearance: US Government JOB DESCRIPTION Interested in improving the

Data Management Analyst/technical Writer, *Nasa* Project Open Data - Sgt Incorporated (United States)
Data Management Analyst/Technical Writer, NASA Project Open Data Information Technology Moffett Field, California Job ID: 20308 I'm Interested! Description

Development Engineer Electrical Systems
HE Space is a successful international space company. For over 35 years, we have been supporting our customers with qualified experts in the field of engineering, science and administration. We are currently looking for a Development Engineer Electrical Systems to support our customer in Germany. Development Engineer Electrical Systems Key Tasks and Responsibilities As part of the Development Electrical Systems Team, you will have the following responsibilities Support of the work package Electrical Systems Engineering ELSYS and deliveries of the related items hardware, models, documentation in space programs during the phases BCD Support of engineering for the platform system components for Harness, Power, Onboard Data Handling and AOCS Point of contact towards the customer and suppliers for all ELSYS subjects Analysis of applicable high level requirements Flow down of above requirements to functional chains and subsystem electrical requirements Definition of the electrical architect...

Development of Advanced Optical Diagnostics for NASA Ground Test Facilities - NASA (United States)
of several non-intrusive, advanced optical measurement techniques for use in NASA wind tunnel facilities in support of several strategic thrusts identified

Engineering internship with SOFIA at NASA Armstrong - NASA (United States)
Provide potential experience in leadership, engineering, and astronomy. The student will assist the SOFIA Program in the development and integration of various

Engineering Student Trainee - NASA Pathways Intern - Goddard Space Flight Center (United States)
Tuesday 4/11/2017 (4 day(s) away) ## Job Overview Summary About the Agency The NASA Pathways Intern Program provides students with the opportunity to explore NASA

Full Stack Developer - NASA Open Data Project - Qualified Technical Services, Inc (United States)
Work Location: NASA Ames Research Center (Mountain View, CA) Minimum Citizenship: US Citizen Clearance: US Government REQUIREMENTS Education: BS Discipline(s):

Functional Testing Operations AIT Engineer
As support to the JUICE Mission, you will have the opportunity to provide a functional and operation support to the Prime AIT team for preparation, execution and test result evaluation covering all activities of spacecraft testing and operation. Tasks and Activities The scope of work will include Engineering and preparation of the test sequences for both EM and FM spacecrafts Design of structured test concept Coding of test sequences and synoptics Autonomous execution of electrical integration Prevalidation of test sequences using a simulator based at Airbus and controlled with the STC system SC Test Center provided by Airbus Data retrieval and postprocessing Participation to the daily operations during functional tests on EM spacecraft Toulouse, FM spacecraft Friedrichshafen, environmental test campaign Europe and launch campaign Kourou Daily spacecraft operation during all kind of spacecraft tests Participation to the team meetings EGSE setup and operation Evaluation of test results...

Junior Cyber Security Consultant
As part of the current Cyberrisk consulting unit, you will have the opportunity to be involved into risk assessment initiatives and presales support. Ideally this positions should be based in Milan however if this is not possible for you, you will be able to work for our office in Rome. Tasks and Activities Information Security Management System ISMS engineering activities Supporting a solution development team, planning and reporting on fortnightly increments. Defining, conducting, evaluating and reporting on surveys for information gathering. Proposing, engineering, testing, and implementing an ISMS information system to keep records, documented information, schedules, etc. Defining, conducting, evaluating and reporting on gap analyses based on interviews and review of evidence records towards ISO 27001 compliance. Proposing, reviewing, and presenting the necessary documented information towards ISO 27001 compliance Collaborating closely with the team responsible for ISMS operations...

Meteosat Third Generation MTG System Engineer
Could you organise the inorbit commissioning of the next generation geostationary satellite system? Are you inspired by the idea of working in a global operational satellite agency based in the heart of Europe? We are currently developing the Meteosat Third Generation MTG meteorological satellite system in cooperation with the European Space Agency ESA. This is an exciting opportunity to be involved in establishing and operating the ground segment for three meteorological satellites to monitor the weather and climate from space. Reporting to the MTG System Engineering Team Leader, you will collaborate on the MTG system engineering activities, whilst leading the preparation and execution of the system commissioning. You will be coordinating teams of highly qualified engineers in order to prepare inorbit commissioning plans. Can you manage complex systems and make sound decisions based on the information provided by your fellow experts? Along with a university degree in a relevant subje...

Mirror Integration Development for NASA 's Next Generation X-ray Optics (NGXO) Effort - NASA (United States)
black holes, galaxy clusters, and the evolution of matter and energy. But first, NASA needs to develop a mirror technology up to the challenge. The Next Generation

NonMetallic Materials And Processes Engineer
Job Overview The European Space Agency is ATGs biggest client. They are an international organisation with 22 member states with sites in the Netherlands, Germany, Spain, France, Italy, UK and Belgium. ESA is Europes gateway to Space! For one of our main customers ESAESTEC, we are currently looking for a NonMetallic Materials and Processes Engineer who will give support to Product Assurance and Safety. Tasks Responsibilities Testing of adhesive bonding systems and processes, including adhesives applications for metals and nonmetallic materials. Selection of specific adhesives for specific end uses e.g. extreme temperature applications, integrity under thermal loads. Performing general failure analysis of materials and assemblies with emphasis on adhesion issues. Evaluation of surface treatments and its effects on bonding systems. Longterm durability of adhesive joints. Surface modification and analysis due to space environmental effects like atomic oxygen and plasma effects. Pe...

Research and Development Technician
A vacancy for a Research and Development Technician has arisen within Airbus Defence Space in Stevenage. You will join TSMONS8. As part of the Research and Process Technology Group RPT provide support the Laboratoryworkshop through the development of processes and manufacture of all test pieces, development and nonflight hardware as requested. Perform mechanical assembly, integration, modification and structural repair.

Ensure continuous improvement. Perform first level Quality inspection. Inputs Raw materials, tools, standards parts and components, documentation technical instruction, work order and job card. Outputs Assembly ready for testing with associated production documentation. The successful candidate will be subject to UK National Security Clearance in order to undertake related work in accordance with business needs. To work in the RPT Lab and associated areas with minimal supervision to high standard of workmanship Carry out the manufacture of test pieces and nonflight har...

Secretary Administrative Assistant 32hweek
Job Description Full details on application. Relocation assistance provided if applicable. Job Introduction Serco is a specialist at delivering vital services on behalf of European, National and Local Governments. Serco Europe employs a large workforce in Belgium, Luxembourg, France, Switzerland, Germany, Holland, Spain, Italy and the UK. Our European operations have ca. 2,000 employees delivering critical services to public institutions throughout Europe. Main Responsibilities The candidate will work as a SecretaryAdmin Assistant providing administrative support to different divisions within the assigned Team as the need arises, and as such perform a comprehensive range of procedural, administrative and secretarial tasks as following Update HRMS and divisional shared calendars Support of newcomers for a smooth integration in their teams Preparation of input related to actions for the Division Heads Preparation of monthly reports Daytoday support to Unit personnel regarding business t...

Secretary Administrative Assistant
Specific Tasks The postholder will be working as a SecretaryAdmin Assistant providing administrative support to different divisions within TECE as the need arises, and as such perform a comprehensive range of procedural, administrative and secretarial tasks. In addition the administrative assistant will also perform the following tasks update HRMS and divisional shared calendars support of newcomers for a smooth integration in their teams preparation of input related to actions for the Division Heads preparation of monthly reports. Requirements The ideal candidate must be autonomous in carrying out the tasks assigned with a strong sense of dedication and motivation Due to the dynamic requirements of the positions i.e. covering for different Divisions, flexibility is a must Good interpersonal skills and the ability to work in a team.

Senior/Senior Advanced Quality Engineer (NASA) - KBRwyle (United States)
Title: Senior/Senior Advanced Quality Engineer (NASA) Location: US-US-MD-GREENBELT Job Number: 00336429 KBRwyle seeks an experienced Quality Engineer to provide

Student Trainee (Engineering Technician) - NASA Pathways Intern Employment Program - Armstrong Flight Research Center (United States)
4/12/2017 (5 day(s) away) ## Job Overview Summary About the Agency The NASA Pathways Intern Program provides students with the opportunity to explore NASA

Student Trainee (Engineering) - NASA Pathways Intern Employment Program - Armstrong Flight Research Center (United States)
4/12/2017 (5 day(s) away) ## Job Overview Summary About the Agency The NASA Pathways Intern Program provides students with the opportunity to explore NASA

Student Trainee (Engineering) - NASA Pathways Intern Employment Program - John Glenn Research Center at Lewis Field (United States)
About the Agency To receive consideration, you must submit a resume and answer NASA -specific questions. The NASA questions appear after you submit your resume

Student Trainee (Resources Analyst) - NASA Pathways Intern Employment Program - Armstrong Flight Research Center (United States)
4/12/2017 (5 day(s) away) ## Job Overview Summary About the Agency The NASA Pathways Intern Program provides students with the opportunity to explore NASA

Systems Level Assessment of NASA Advanced Technologies for Space Missions and Aerospace Concepts - NASA (United States)
NASA Langley Research Directorate is developing a range of advanced technologies intended for use in space missions and aeronautics applications. The purpose of this

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