AEROSPACE – THE FUTURE

Please forward additional “INNOVATION” websites
THANK YOU!
** INNOVATION **

AIRBUS INNOVATION:
http://www.airbus.com/innovation/

BOEING-INNOVATION VIDEO SERIES:

EADS-INNOVATION:

EADS - UP MAGAZINE:

HONEYWELL-INNOVATION:
http://www51.honeywell.com/aero/technology/tech-areas.html

LOCKHEED-MARTIN – INNOVATION:
http://www.lockheedmartin.com/us/who-we-are/center-for-innovation.html

RAYTHEON-INNOVATION:
http://www.raytheon.com/ourcompany/innovation/

SAFRAN - AREAS OF EXPERTISE:

Please forward additional active “R & D” websites
THANK YOU!
** RESEARCH AND DEVELOPMENT **

ACTIVE PROJECTS

RED BULL STRATOS:
http://www.redbullstratos.com
Supported by a team of experts Felix Baumgartner plans to ascend to 120,000 feet in a stratospheric balloon and make a freefall jump rushing toward earth at supersonic speeds before parachuting to the ground.

SOLAR IMPULSE:
http://www.solarimpulse.com
http://www.youtube.com/watch?v=0JM2DWrqGp8
Solar Impulse is a demonstration of what can be achieved with today’s technologies. In July 2010, HB-SIA became the first solar-powered airplane in history capable of flying through a complete daylight cycle, thereby establishing 3 World Records.

TERRAFUGIA:
http://www.terrafugia.com
Terrafugia (ter-ra-FOO-gee-ah) The Company’s mission is to provide innovative solutions to the challenges facing personal aviation. The result: the Transition® Roadable Aircraft.

PAL-V ONE

http://pal-v.com
The launch of the PAL-V ONE marks a truly historic event: the birth of a new class of vehicles offering unprecedented freedom, adventure, flexibility and pleasure – all in one product!

SCALEd COMposites – Projects - (HELP WANTED)
http://www.scaled.com/projects
Scaled’s aerodynamic analysis and design capability, when combined with our proof-of-concept building experience, provides our customers with the most cost-effective and accurate development data available.

SPIN FORMING
06.01.12
Engineers at NASA are looking to give a new "spin" on the making of aerospace components in the hopes of making them lighter, stronger and less expensive.

Spin formed model of the forward pressure vessel bulkhead of an Orion-type crew module. Credit: NASA/Sean Smith

John Wagner and Marcia Domack, both of the Advanced Materials and Processing Branch at NASA Langley Research Center in Hampton, Va., have spent the past few years getting funding to work with Boston-based metal fabricator Spincraft to utilize an innovative manufacturing technique called spin forming to create a model of the forward pressure vessel bulkhead (FPVBH) of an Orion-type crew module. They have also partnered with researchers at the Lockheed Martin Michoud Assembly Facility (MAF) for preparation of the material and definition of the FPVBH design.

FLYNANO GOES ELECTRIC, STARTS "AIRBORNE TEST FLIGHTS"
June 12, 2012, Mary Grady, Contributing editor

The creators of the FlyNano sport aircraft launched from a lake in southern Finland, near Helsinki, on Monday, and posted a video at their website showing several short hops above the surface. Over the winter, the prototype was re-fitted with an all-new electric motor, which the company says is "substantially stronger" than the earlier gasoline powerplant.
HOW TO LAUNCH A ROCKET IN MID-AIR
June 13, 2012, Jason Paur

At 12:00 p.m. EDT today a small rocket made by Orbital Sciences launched a NASA telescope into orbit. While there is nothing unusual about a rocket launching into orbit, the location of today’s lift-off was a bit different than the typical launch pad. The relatively short, 55-foot-long Pegasus rocket was launched from a spot almost eight miles above the Pacific Ocean, about halfway between Hawaii and Australia.

GERMAN COMPANY CONTINUES DEVELOPMENT OF PERSONAL ELECTRIC HELICOPTER
Thu, Jun 14, 2012

"China is one of the fastest-growing and most dynamic aviation markets in the world, and Boeing is committed to giving the Chinese airlines the competitive advantage they need to succeed as they grow," said Sherry Carbary, vice president, Boeing Flight Services, in a Monday news release. "Providing new, world-class resources and training focused on the region’s 787 and 747 fleets is one way we can bring the Boeing Edge to China."

BOEING EXPANDS FLIGHT SERVICES BUSINESS IN CHINA

Proof-Of-Concept Aircraft Won the Lindbergh Prize For 2012
You may recall a while back on AirBorne that we featured an Aero-Video of the Week that was a multi-rotor electric helicopter which looked like it sat on a large exercise ball. That aircraft went on to win the 2012 Lindbergh prize for Innovation, announced in April at AERO-Friedrichshafen. VIDEO: http://www.extremetech.com/extreme/118131-two-seater-german-made-multicopter-flying-machine-on-its-way
NOTE: This aircraft is flown with a handheld radio transmitter. This is called “Fly by Wireless”

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Space Angels Network is the premier source of aerospace deal flow for investors and of early-stage capital for aerospace-related ventures across a wide spectrum of technologies, markets, and industries. We are a professionally managed national network of accredited investors focused on

Commercial Crew Partners Milestone Progress Report
June 20, 2012, Doug Messier

NASA PR – NASA’s commercial crew partners continue to achieve exciting milestones as the Commercial Crew Development Round 2 (CCDev2) Space Act Agreements enter their home stretch. Since the agreements were awarded in April 2011, the partners have achieved 48 of the 62 planned test, demonstration, and technical review milestone events. With the maturation of spacecraft and launch vehicle designs being accomplished under CCDev2, NASA’s Commercial Crew Program is well positioned to move into the integrated capability design and testing phase. Awards for new Space Act Agreements are expected in July/August 2012.

BOEING EXPANDS FLIGHT SERVICES BUSINESS IN CHINA

Tripples Training Capacity For Airlines At The Shanghai Campus
Boeing has expanded its Flight Services business in China, saying the move will greatly enhance training capacity for airlines in the region. With the introduction of an advanced 787 Dreamliner training suite for pilot and maintenance training, and a newly-installed 747-400 full-flight simulator, the company is tripling its offerings at the Boeing Flight Services Shanghai training campus. The new training devices join an existing 757/767 full-flight simulator at the facility.

"China is one of the fastest-growing and most dynamic aviation markets in the world, and Boeing is committed to giving the Chinese airlines the competitive advantage they need to succeed as they grow," said Sherry Carbary, vice president, Boeing Flight Services, in a Monday news release. "Providing new, world-class resources and training focused on the region’s 787 and 747 fleets is one way we can bring the Boeing Edge to China."

COMMERCIAL SPACE TRAVEL MAY BRING SCIENCE BENEFITS, ADVOCATES SAY
Denise Chow, SPACE.com Staff Writer, 20 June 2012

An artist’s rendering of Dream Chaser approaching the International Space Station.
CREDIT: Sierra Nevada
Launching NASA astronauts to the International Space Station aboard commercial spaceships may have its risks, but the payoffs from lower-cost flights to the orbiting outpost, and expanded scientific use of the microgravity environment, are expected to be considerable, industry officials told lawmakers today (June 20).

COMPOSITE CREW MODULE UNDERGOES VACUUM TESTING AT MARSHALL
June 21, 2012, Doug Messier

The Composite Crew Module being rolled into the vacuum chamber at Marshall’s Environmental Test Facility. The test
will continue through the end of the summer. (Credit: NASA/MSFC/Emmett Given)
Huntsville, Ala. (NASA PR — This week, engineers at NASA’s Marshall Space Flight Center in Huntsville, Ala., moved a Composite Crew Module (CCM) into the Environmental Test Facility vacuum chamber to gauge how well a space structure fabricated with composite materials will react in a simulated space environment. Data gained during this test series will aid in the design and development of future in-space composite habitable structures.

CARBON REVOLUTION -- THE WORLD’S FIRST ONE PIECE CARBON FIBER WHEELS FOR AUTOMOTIVE AND AEROSPACE APPLICATIONS

MANHATTAN BEACH, Calif., June 22, 2012 /PRNewswire-iReach/ -- Ground breaking technology that truly moves the global automotive industry doesn’t come along often. In such a massive and highly sophisticated sector, serious innovations are almost always the work of the major players in Europe or the USA. Anomalies and exceptions to this are rare, particularly in the areas of lightweighting and true performance enhancement.

Over the past 7 years just such an anomaly has been created by a group that has remained ferociously independent of any global OEM. An Australian based venture has succeeded in solving one of the last remaining holy grails of the industry - A full one-piece carbon fiber composite wheel. This has been achieved through a remarkable series of partnerships and the assembly of an unrivalled group of technical and industrial talent. The company's name is Carbon Revolution and the Product is the CR9.

MOROCCO: TRIUMPHANT LANDING OF SOLAR IMPULSE IN OUARZAZATE

Sat, Jun 23, 2012, PR Newswire
http://www.aero-news.net/index.cfm?do=main.textpost&id=a21d2903-adf2-4cbe-ab88-a36b2ee98109

After an unsuccessful attempt to Ouarzazate last week, Solar Impulse has completed its flight to Morocco’s Southern region. The prototype landed successfully at 0025 local time on June 22 June. This was Solar Impulse’s most challenging flight to date due to the hot and arid desert climate famous for its turbulence and high winds.

Excalibur Almaz Promises the Moon — For a Price
Doug Messier, Parabolic Arc Managing Editor, June 22, 2012

Art Dula was at the Royal Aeronautical Society’s 3rd European Space Tourism Conference in London this week, promoting Excalibur Almaz (EA) and announcing an agreement with XCOR Aerospace for crew training.

Based upon what I have read, EA’s latest plan for using surplus Soviet-era space stations and capsules sounds pretty awesome. A flight to the moon and back for the low, low price of $150 million. Pricey, but definitely on the mega-cool side of the spectrum.

SUBORBITAL SPACE READY TO TAKE FLIGHT, EXPERTS SAY
http://www.space.com/16291-suborbital-space-research-flights.html
Clara Moskowitz, SPACE.com Assistant Editor, 25 June 2012

Excalibur Almaz’s space tourism vehicle concept. (Credit: Excalibur Almaz)

Suborbital space travel is on the verge of a renaissance, experts say, with short jaunts to the edge of space becoming more popular for research and soon to be available to tourists.

NASA-SUPPORTED COMPANIES TO UNVEIL NEW SUPersonic Bizjets at Farnborough

Projections Are For London-Sydney Flight In Four Hours
A consortium of companies working with NASA reportedly will take the wraps off their new SST concepts at the Farnborough Air Show next month. Boeing, Lockheed Martin, and Gulfstream are all said to be collaborating with the space agency to build a supersonic business jet that will travel from London, U.K., to Sydney, AU, a 12,000 mile trip, in just four hours.

THE RACE TO BUILD A SUCCESSOR TO CONCORDE: BOEING, GULFSTREAM AND NASA JOIN FORCES TO CREATE A SUPersonic jet CAPABLE OF FLYING FROM LONDON TO SYDNEY IN FOUR HOURS
http://www.dailymail.co.uk/sciencetech/article-2163953/Nasa-joins-race-build-successor-Concorde-capable-flying-London-Sydney-FOUR-HOURS.html#ixzz1yvS9HxbP
Daily Mail Reporter, 24 June 2012

Aircraft enthusiasts are waiting with growing anticipation for the unveiling of plans for a supersonic jet that may be able to fly London to Sydney in just four hours. U.S. builders - helped by the NASA space agency - will reveal the prototype successors to Concorde at the Farnborough air show next month.
Boeing, Lockheed Martin and Gulfstream are leading the way to build the new supersonic passenger plane which will be targeted at first at the business jet market.

**VIRGIN GALACTIC TO LAUNCH NEW CARGO PLAN, SPACESHIP DESIGN**
26 June 2012, Rob Copinger, SPACE.com Contributor

The first WhiteKnightTwo/SpaceShipTwo launch system has undergone extensive tests. Next to come are critical rocket-powered flights of the two-pilot, six-passenger spaceship.

A new initiative could be on the horizon for suborbital spaceship company Virgin Galactic, founded by British billionaire Sir Richard Branson. Branson is expected to announce Virgin Galactic Cargo, a renewed effort to launch small satellites commercially, and reveal design changes to his tourism spacecraft SpaceShipTwo (SS2) at the U.K.’s Farnborough International Airshow next month.

**NEW HUMAN-POWERED AIRCRAFT CHALLENGE**
June 1, 2012, Glenn Pew, Contributing Editor

The goal is to fly a human-powered aircraft over a 26-mile course that includes an oval and two figure-eight patterns in less than an hour; history says Larry McNay’s team might do it and his aircraft could be ready in a few weeks. McNay was part of the Gossamer Albatross team that successfully flew a pedal-powered aircraft across the English Channel in June of 1979. He was 16 at the time. He is now a Lockheed Martin engineer with his sights set on winning the 26-mile Kremer International Marathon Competition to be held this July in the United Kingdom. His team’s design, the Wind Rose, has a 60-foot wingspan and is made almost exclusively of advanced composites. But the marathon competition isn’t the team’s only goal.

**CORNING GETS FLEXIBLE WITH NEW WILLOW GLASS**
Molly Klinefelter, Editorial Assistant, 05 June 2012

Corning is the mastermind behind Gorilla Glass, the durable, scratch-resistant glass found on select mobile devices such as the LG Viper 4G LTE and the Dell XPS 13. But Willow Glass, the company’s newest invention, promises to change everything. The super-slim, flexible glass is capable of wrapping around objects and can be processed at up to 500 degrees Celsius. Willow Glass, according to the company, can be made as thin as 100 microns for maximum touch screen sensitivity while retaining the toughness and resistance to scratches.

**BOEING’S CORPULENT HYDROGEN-POWERED DRONE MAKES ITS FIRST FLIGHT**
Rebecca Boyle, 06.05.2012
http://www.youtube.com/watch?v=VQB5MBHbLrM&feature=endscreen

Eventually it will fly for four days straight, making only water as its waste product. But a journey of four days starts with a few minutes, so the chubby PhantomEye’s first autonomous flight was under half an hour.

**ENERGY-DENSE BIOFUEL FROM CELLULOSE CLOSE TO BEING ECONOMICAL**
http://www.sciencedaily.com/releases/2012/06/120604181954.htm
ScienceDaily (June 4, 2012) — A new Purdue University-developed process for creating biofuels has shown potential to be cost-effective for production scale, opening the door for moving beyond the laboratory. A Purdue economic analysis shows that the cost of the thermo-chemical H2Bioil method is competitive when crude oil is about $100 per barrel when using certain energy methods to create hydrogen needed for the process. If a federal carbon tax were implemented, the biofuel would become even more economical.

**NEW SPIN ON ANTIFREEZE: RESEARCHERS CREATE ULTRA SLIPPERY ANTI-ICE AND ANTI-FROST SURFACES**
http://www.sciencedaily.com/releases/2012/06/12061134350.htm
ScienceDaily (June 11, 2012) — A team of researchers from Harvard University have invented a way to keep any metal surface free of ice and frost. The treated surfaces quickly shed even tiny, incipient condensation droplets or frost simply through gravity. The technology prevents ice sheets from developing on surfaces — and any ice that does form, slides off effortlessly.

INTEL REVEALS NEUROMORPHIC CHIP DESIGN

Intel’s goal is to build chips that work more like the human brain. Now its engineers think they know how.

June 18, 2012

The brain is the most extraordinary of computing machines. It carries out tasks as a matter of routine that would fry the circuits of the most powerful supercomputers on the planet: walking, talking, recognizing, analyzing and so on. And where supercomputers require enough juice to power a small town, the human brain does all its work using little more than the energy in a bowl of porridge.

AN INVISIBILITY CLOAK WITH AN ON-OFF SWITCH

Physicists have worked out how to build invisibility cloaks that hide objects with the flick of a switch.

June 21, 2012

The first invisibility cloaks appeared about a decade ago. Since then, the theory behind these devices and the technology used to implement them has developed at a breathtaking pace.

NEW ‘STRAIN PAINT’ GLOWS FLUORESCENT WHEN THE UNDERLYING STRUCTURE IS STRESSED

A coating for aircraft, bridges, and other structures could make it easy to detect unseen damage.

Clay Dillow, 06.21.2012

and stress in an underlying structure by glowing under near-infrared light.

THE PROVING GROUND FOR MULTI-LAYER INSULATION MATERIALS
http://cdn.eetimes.com/design/military-aerospace-design/4376030/The-proving-ground-for-multi-layer-insulation-materials

06/25/2012, Art Mallett, Jr., Business Development Manager, Aerospace Products Group, Dunmore Corporation

Engineers on a constant quest to reduce the weight of space vehicles will look to next-generation materials, replacing metals with fabrics that provide the same thermal and radiation protection while giving the spacecraft a fighting chance of survival outside the Earth’s atmosphere. This article will address current materials used, as well as a new generation of high-performing materials.

END SCIENCE THAT CAN AFFECT AEROSPACE

AEROSPACE INDUSTRY / MILITARY / GOVERNMENT NEWS THAT CAN AFFECT YOUR CAREER

THESE ARE GREAT WEBSITES TO VISIT:

SPACE.COM: http://www.space.com/

BOEING – BEYOND EARTH:
http://www.beyondearth.com

DARPA WORKS WITH FIVE AEROSPACE COMPANIES TO DEVELOP INEXPENSIVE LAUNCH CAPABILITY FOR SMALL SATELLITES

June 1, 2012

http://www.avionics-intelligence.com/articles/2012/06/darpa_works_withfiveaerospacecompaniesdevelopinexpensivelaunch.html

Posted by John Keller

ARLINGTON, Va., 1 June 2012. Rocket scientists at the U.S. Defense Advanced Research Projects Agency (DARPA) in Arlington, Va., are working with five aerospace companies to develop rapid and inexpensive launch capability to place small satellites in orbit at a cost of less than $10,000 per pound.

The contracts are part of the Airborne Launch Assist Space Access (ALASA) program, which seeks capability to launch a 100-pound satellite for a total cost of less than $1 million, which is about one-third of today’s satellite launch costs.

INTEL USES AEROSPACE TECHNOLOGY IN ATTEMPT TO BRING DOWN PRICE OF ULTRABOOKS

Noel Randewich, Reuters06/01/2012

SAN FRANCISCO -- Engineers at Intel (INTC) are applying lessons from aircraft design to create sturdier laptops in a
bid to reduce the prices of the new ultra-thin computers the top chipmaker is promoting heavily. Santa Clara-based Intel is counting on the super-thin laptops, a category it has dubbed ultrabooks, to add some pizzazz to a PC market languishing due to the growing popularity of Apple's (AAPL) iPad. Models expected later this year will have large touchscreens, "instant on" responsiveness and razor-thin dimensions - all expensive features that have left some on Wall Street wondering if they might be too expensive for average consumers.

O.K., IT IS NOT AEROSPACE (but it is neat):
Audi Goes Digital with New Rearview Mirror Replacement
June 04, 2012, Damon Lavrinc

BOEING DELIVERS 1ST SPACE LAUNCH SYSTEM HARDWARE TO NASA
SLS Capability Will Enable Future Human Space Exploration
Three flight computer software test beds have been delivered to NASA by Boeing ... the first critical element for flight software development in support of NASA's Space Launch System (SLS). Flight software controls the launch vehicle during preflight tanking operations and in flight. The test beds were delivered on April 25 to the Software Development Facility at NASA's Marshall Space Flight Center in Huntsville. They are now being integrated with NASA's application software.

"These are the most capable flight computers ever developed for human spaceflight," said Dane Richardson, manager for the Boeing SLS Avionics and Software Team. "They have the highest processing capability available in a flight computer and triple modular redundant processors. The technology is proven from years of satellite applications, and it's reliable enough to take SLS beyond Earth's orbit."

ECLIPSE AEROSPACE BEGINS PRODUCTION IN ABQ
04 Jun 2012, Celina Westervelt

ALBUQUERQUE (KRQE) - Eclipse Aerospace is back in production and is once again making jets in Albuquerque. It is great news for employees and for potential new hires. It has been a long road back for the Albuquerque aviation company since it went into bankruptcy nearly four years ago. Now the new owners hope this is the final step in eclipse coming all the way back.

Boeing still pondering another stretch of 747 airframe
Max Kingsley-Jones, Washington DC
Boeing has not ruled out a further stretch of the 747 but any ".9" development will have to wait its turn in the product development cycle behind higher priority projects.
"The 747 could be stretched, some day," says 747 programme manager Elizabeth Lund.

IRAN CONSTRUCTING NEW SPACE LAUNCH FACILITIES
Claims It Is Close To Satellite Launch Capability
Wed, Jun 06, 2012
The Defense Minister of Iran said Saturday that it is close to being ready to launch its own satellites into orbit from a new space launch facility in an undisclosed location in the country.

The facility, which Defense Minister Gen. Ahmad Vahidi said is about 80 percent complete, will become part of a growing satellite launch system in Iran. The Islamic Republic operates a launch complex 125 miles east of Tehran in Semnan, along with a monitoring facility near Mahdahat west of the capital.

CHINA SPACE CAPABILITIES GROWING AS RELIABILITY ISSUES SURFACE
June 06, 2012, Doug Messier

The Defense Department’s annual report to Congress, “Military and Security Developments Involving the People’s Republic of China 2012,” includes an interesting section on that nation’s rapidly growing space program. The report finds progress across a broad range of areas from human spaceflight to global positioning systems and capabilities for disable foreign military satellites. It also cautions that the Chinese are facing issues with reliability due to a surging launch rate.

CFM56-7B ENGINE SETS NEW FIRST-RUN WORLD RECORD
First Engine to Achieve 50,000 Flight Hours without a Shop Visit

German airline TUIfly and CFM International marked a new first-run time-on-wing world record set by a CFM56-7B engine powering one of the airlines Boeing Next-
A sample postcard for a space vacation to Mars from the Intergalactic Travel Bureau, a project put on by the science outreach organization Guerilla Science.

**VETERAN SPACE COMPANY ORBITAL SCIENCES READY FOR ISS**
June 11, 2012, Jason Paur

With a few decades of space launch experience already under its belt, the Orbital Sciences Corporation is next up to demonstrate cargo delivery capabilities to the International Space Station. With so much attention focused on SpaceX’s successful demonstration flight last month, it might be easy to forget Elon Musk’s company is just one of two receiving investments from NASA as part of its Commercial Orbital Transportation Services (COTS) program to deliver cargo to the ISS. And unlike upstart SpaceX, the other company in the COTS program is a veteran of the commercial space industry.

**THE CASE FOR COMMERCIAL SPACEFLIGHT**
June 9, 2012, Paul Bertorelli

I was channel surfing last week and landed on a video clip of Elon Musk blubering about how no less than certified American icons Neil Armstrong and Gene Cernan were bad mouthing Musk’s commercial space initiative. He was close to tears. Actually, in testimony before Congress, Armstrong and Cernan weren’t so much exclusively dissing SpaceX, Musk’s company, as they were the very idea that commercializing space operations is simply another indication that NASA has lost its way and has no vision. (I could have told them that, without need for committee hearing.)

**A380 WING-CRACKS TO REQUIRE EIGHT-WEEK REPAIR DOWNTIME**

Max Kingsley-Jones London

Airbus A380 operators face a 30,000 man-hour repair programme to address wing-crack issues that have dogged the airliner which will require an eight-week downtime if implemented in one installment.

**ICON COLLABORATES WITH LOTUS ENGINEERING**

Janice Wood | Aircraft

ICON Aircraft is collaborating closely with Lotus Engineering USA on key areas of the production design of the ICON A5 amphibious Light Sport Aircraft. The work focuses on the A5’s cockpit, where Lotus’ experience in lightweight premium automotive-quality components is especially relevant, ICON officials said.
The collaboration with Lotus is perfect for ICON because it provides us with world-class expertise during this intense period of production development,” said ICON VP of Design Klaus Tritschler. “Lotus has proven invaluable because of their experience designing and manufacturing high quality yet lightweight interiors in the same volumes at which we’ll be producing the A5. Additionally, they provide key production knowledge and insights from the automotive industry, which we consider the benchmark in terms of quality and design.”

POPULAR ROTORCRAFT ASSOCIATION SETS CONVENTION
Jun 14, 2012
Group Will Again Gather At Mentone, IN, After Oshkosh Gyroplanes, gyrocopters, helicopters and autogyros, including other sport and general aviation aircraft, will gather at the Mentone Airport (C-92) in Indiana, July 31 through Aug. 4 for the 50th annual convention of the Popular Rotorcraft Association.

This is a rare opportunity to see these unique flying machines, talk to the pilots, builders, kit manufacturers, and see them fly, organizers said, noting the rotorcraft will range from simple open-frame ultralight gyroplanes and helicopters to multi-seat enclosed cross-country rotocraft.

SEAPLANE AIRLINE BEGINS BIMINI SERVICE FROM SOUTH FLORIDA
Jun 14, 2012
Tropic Ocean Airways Launches Regular Seaplane Flights From The Miami Seaplane Base To North Bimini, Bahamas

South Florida’s seaplane airline Tropic Ocean Airways said Wednesday it has begun regular service between the Miami Seaplane Base and North Bimini. The airline, which began regular service four days per week to the Bahamian island from Fort Lauderdale (FLL) in March, added the Miami Seaplane Base as a stop on its regular route. Flights will depart FLL and stop in Miami prior to the short yet scenic 30 minute flight to North Bimini. The seaplane landing on North Bimini saves additional time as passengers will not have to spend valuable vacation time traveling from the South Bimini airport via taxi and ferry.

AIRPORTS FOCUS ON THE GROUND

A new luggage claim area under construction at New York’s Kennedy Airport.

June 14, 2012, JAD MOUAWAD, Angel Franco, NYT
At a time when federal and state public works programs are stalled, the nation’s biggest airports are in the midst of major renovations or expansions that, taken together, amount to some of the largest infrastructure projects in the country.

Announces Major Foundation Partnership with United Way to Mentor Local Youth
Ten years ago, Airbus appeared on the Wichita, KS, aviation scene with the opening of its first U.S. engineering center in the city’s Old Town section. A decade later, Airbus’ operation in Wichita has grown by more than 600%, and the company’s role in the local aerospace community and its commitment to the city continue to grow at an equally strong pace.

BOLDEN VISITS SPACEX HQ IN CALIFORNIA
Doug Messier, June 14, 2012, News

SpaceX CEO Elon Musk and NASA Administrator Charles Bolden at SpaceX’s headquarters in Hawthorne, Calif. (Credit: NASA)

NASA PR — NASA Administrator Charles Bolden visited SpaceX Headquarters in Hawthorne, Calif., Thursday, capping a tour of SpaceX facilities to thank employees for their part in making the first mission by a private company to the International Space Station a success. Bolden and SpaceX CEO and Chief Designer Elon Musk addressed more than 1,000 employees who helped design, launch and safely recover the company’s Dragon capsule in May following its trip to the space station.

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June 14, 2012, JAD MOUAWAD, Angel Franco, NYT
At a time when federal and state public works programs are stalled, the nation’s biggest airports are in the midst of major renovations or expansions that, taken together, amount to some of the largest infrastructure projects in the country.
AVIRAMP
The world’s only portable jet-bridge with gentle 8° slopes suitable for all passengers, PRM’s & wheelchair users.
Aviramp was developed to meet the ever growing demands of the aviation industry and the increased number of passengers travelling with disabilities or restricted mobility.
VIDEO:
http://www.youtube.com/watch?feature=player_embedded&v=J93YLAuZIwK

AN ENGINE FOR GROWTH
Janice Wood | General Aviation News
The General Aviation Manufacturers Association (GAMA) recently unveiled a three-minute video, “General Aviation Manufacturing – An Engine for Growth,” which highlights general aviation’s role as an American “success story,” a major generator of “first-class job creation,” a global technological leader in supplying “next generation aircraft” and a producer of transportation assets that help companies be “more productive and efficient” and keep communities connected. Click here to watch the video.

NASA, FAA DELINEATE COMMERCIAL SPACEFLIGHT CERTIFICATION
By: Zach Rosenberg Washington DC
Source:
NASA and the Federal Aviation Administration (FAA) have signed a memorandum of understanding (MoU) clarifying the certification process for commercial spaceflight.

COSMICA SPACELINES FORGES ALLIANCE FOR LYNX PAYLOAD INTEGRATION SERVICES
June 20, 2012, Doug Messier

London, England (Cosmica PR) – Cosmica Spacelines and EMXYS announced today the signature of an alliance to jointly market and provide payload integration services on XCOR’s Lynx spaceplane. This alliance consolidates the team formed by the two companies as the leading supplier of commercial suborbital flight services for experimental payloads in the European market. Both companies are Authorized Payload Integrators for XCOR’s Lynx, a fully reusable, liquid rocket powered suborbital vehicle expected to make its first flight in early 2013 with commercial flights available after successful completion of a comprehensive flight test program.

JP AEROSPACE OFFERS DISCOUNT CARGO TO THE EDGE OF SPACE
Researches and students can reach the edge of space with the MiniCube miniature shipping container.

RANCHO CORDOVA, CA, June 23, 2012 /24-7PressRelease/ -- Cutting edge research and DIY experimenting is taking place not in orbit around the Earth but in the no man’s land between sky and stars. The area commonly called ‘near space’ or the ’edge of space’ is just twenty miles over our heads. High altitude balloons are used carry experiments, cameras and sensors to this area of black sky, extreme cold and the curve of the Earth looming below.
The problem is getting there.

EMBRAER TO BUILD JETS IN CHINA
June 25, 2012, By Mary Grady, Contributing editor

In Rio de Janeiro last week, political leaders from Brazil and China signed an agreement that will allow Embraer to start building business jets in China. The deal creates a partnership between Embraer and the Aviation Industry Corporation of China (AVIC) to build Legacy 600 and 650 jets using a facility already in place in Harbin, China. The new operation is expected to produce about 20 jets a year for the Chinese market. The first Embraer jet to be built in China is scheduled to be completed by the end of next year.

PROTECTING THE INNOVATIONS OF TOMORROW

25 June 2012
Airbus is putting greater emphasis on protecting – and when appropriate, promoting – its diverse range of company-developed technological advances and innovations with an optimised new system now in place for effectively managing intellectual property.
To confirm that all ideas and concepts are fully explored, and to make sure necessary funds are allocated appropriately, Airbus introduced a system of patent committees to closely examine each proposal. These groups combine expertise from across the company’s operations to think through possible applications and determine whether there is commercial potential.
Automated mating of large aircraft components offers an alternative solution for aircraft manufacturers to cut costs, improve process quality, and shorten time to market. More and more, flexible and automated systems are replacing hard jigs throughout the process of aircraft structural assembly—for instance, in the manufacturing of the fuselage sections from shell panels, the alignment of the sections to build the fuselage, and the joining of wings and tail units to the fuselage.

UNITED TECHNOLOGIES SUBSIDIARY PRATT & WHITNEY CANADA PLEADED GUILTY to violating the Arms Export Control Act and making false statements in connection with its export to China of US-origin military software used in the development of China’s Z-10 attack helicopter. UTC and its involved subsidiaries settled with the US Justice and State departments for more than $75M. https://mail.google.com/mail/?shva=1#inbox/13838b07a725df3a

LIBERTY SECOND STAGE A STEP CLOSER TO PRODUCTION
June 29, 2012, Doug Messier

ARLINGTON, Va., June 28, 2012 (Astrium PR) – Astrium, the number one company in Europe for space technologies and systems, has successfully completed a set of tests on tank structures proving that key design and manufacturing processes used for Ariane launchers are ready for production of the Liberty commercial launch vehicle second stage with ATK.

PILOTS’ BILL OF RIGHTS PASSES SENATE
June 30, 2012, By Glenn Pew, Contributing Editor

Senator James Inhofe is known for his involvement in general aviation and, historically, that hasn’t always been strictly positive, but his Pilots’ Bill of Rights passed the Senate Friday and that may be different. In October 2010, Inhofe landed on a closed runway that had vehicles and people on it. He received a remedial training order from the FAA. Difficulties he experienced while attempting to gather information about the incident led him in 2011 to introduce a bill to protect pilots from “agency overreach.” The bill includes protections for pilots who become the subject of FAA enforcement proceedings and also requires the FAA to take actions regarding NOTAMs and the agency’s medical certification process.
Mobile TV obtains Airbus A320 plant blueprint
June 29, 2012

CHINA SUCCESSFULLY DOCKS MANNED SPACE CAPSULE AT ORBITING MODULE
By Clara Moskowitz, SPACE.com Assistant Managing Editor
Date: 18 June 2012 Time: 12:02 AM ET

The crew of China's Shenzhou 9 mission waves to a camera aboard the Tiangong 1 space module after successfully docking their capsule at the test module on June 18, 2012, in this still from a state-run TV broadcast on CNTV. The crew is from left: Liu Wang, Liu Yang (China's first female astronaut), and mission commander Jing Haipeng.

Chinese astronauts docked two spaceships in orbit for the first time Monday (June 18), marking a vital milestone in the country's quest to build a manned space station in Earth orbit.

CHINESE ASTRONAUTS RETURN TO EARTH AFTER 12-DAY MISSION
By Colin Lecher, 06.29.2012

Taikonaut Liu Yang AFP/Getty Images

Chinese astronauts have returned to Earth in a re-entry broadcast live on Chinese television, landing safely in Inner Mongolia. We saw the historic launch and docking earlier this month, and now, after more than a week of running tests aboard the solar-powered Tiangong 1 space module, the crew of three is back. Needless to say, this is another big leap for the country.

END

Florida Tech adds Master’s Degree in Aviation Safety
Janice Wood | General Aviation News
A growing government and private sector need for professionals trained in aviation safety has prompted a new degree at Florida Institute of Technology: the Master of Science in Aviation Safety, which is taught 100% through online learning. The degree, offered by the Florida Tech College of Aeronautics, is a companion degree to its Master of Science in Human Factors in Aeronautics, which is also available online.

ENGINEERS HAVE PILOT POSITION IN AEROSPACE JOBS MARKET
http://www.google.com/hostednews/afp/article/ALeqM5gTIJauo6KPatwnifjx6MnL4nHQ?docId=CNG.d3aeffec4167635793f1246dd8703bd2.341
Patrick Rahir (AFP), PARIS
The race to sell airliners, particularly between Airbus and Boeing, is putting the aerospace companies of the world in cut-throat competition to recruit engineers.

There is a worldwide shortage of people with the qualifications needed by the companies gearing up to meet demand for an estimated 20,000 aircraft in the next 20 years. The European airliner manufacturer Airbus for example is using Twitter accounts to talk to potential recruits and is to hold an international recruitment day on June 30th, interviewing 100 candidates from 15 countries selected from more than 6,500 applicants.

MIDDLE EAST CARRIERS TO FACE CHALLENGES ADDRESSING PILOT SHORTAGE
https://news.google.com/news/section?pz=1&cf=all&ned=us&hl=en&csid=43f33ede0f8d2826&redirect=true
Middle East: Tuesday, June 19 - 2012 at 10:37
With demand for pilots growing at a faster rate than local pilots can be trained, Middle East carriers are likely to find it increasingly difficult to hire enough pilots to meet their needs.

**AA TO REDUCE JULY FLYING DUE TO PILOT SHORTAGE**


DAVID KOENIG Associated Press, 6/7/2012

**DALLAS** - American Airlines says it will reduce flights in July, partly because of a shortage of pilots due to more of them calling in sick.

The 1 percent reduction in July's schedule follows a 1.5 percent cutback in June, which was also blamed partly on higher usage of sick leave by pilots.

A union spokesman said Wednesday that pilots could be taking care of elective procedures before American raises their premiums and co-payments.

**AIR FORCE NEEDS 600 MORE UAV PILOTS, SENSOR OPERATORS**


Defense Systems Staff, Jun 15, 2012

The Defense Department is struggling to find enough people to operate its expanding fleet of unmanned aerial vehicles, and the Air Force in particular is suffering from the shortage, reports Lorenzo Franceschi-Bicchierai at Wired's Danger Room blog.

An April 2012 report on the future of UAVs overseen by DOD chief weapons-buyer Frank Kendall, which was obtained by Inside Defense, revealed that the agency is not only short on analysts to sift through the voluminous data gathered from UAVs, but also that there simply aren't enough UAV pilots and sensor operators, the story said.

**WHEN DID YOU KNOW?**

Please forward pictures that you may have for publication in this section.

We do not publish any information regarding the children

**Photography Credit:**

American Modeling Association

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