The Lead

Photos of the Day: The Navy’s robo-tuna

July 11, 2014 | by ECN Staff | Comments

The Navy’s robo-tuna, designed by Boston Engineering, is a 4-foot long unmanned undersea vehicle designed to blend in with marine life and perform military functions. This "biometric" autonomous vehicle moves just like a fish, flipping its tail to propel itself....

TOPICS:

- Photos of the Day
- Military & Aerospace

Photos of the Day: 'Dropship' quadcopter to lower Rover onto Mars

July 9, 2014 12:50 pm | by ESA | Comments

The 'dropship' quadcopter and mockup rover are used for testing the ESA's latest StarTiger...

Projecting a 3-dimensional future

July 9, 2014 12:47 pm | by EurekAlert! | Comments

Since the 1960s, theatergoers have shelled out for crude 3-D glasses, polarized glasses, and...

Diverse groups fly airship over NSA's Utah Data Center to protest illegal internet spying

June 27, 2014 1:57 pm | Comments

The environmental campaigning group Greenpeace, digital rights watchdog Electronic Frontier...

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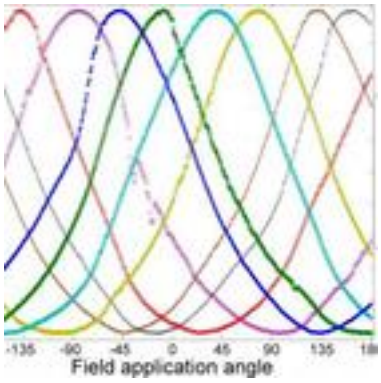
Fill 'er up: NIST develops prototype meter test for hydrogen refueling stations

July 22, 2014 4:18 pm | by EurekAlert! | Comments

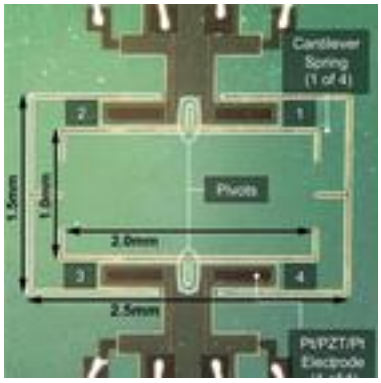
To support the fair sale of gaseous hydrogen as a vehicle fuel, researchers at the National Institute of Standards and Technology (NIST) have developed a prototype field test standard to test the accuracy of hydrogen fuel dispensers. Once the standard is field tested, it will serve as a model for constructing similar devices....



A new multi-bit 'spin' for MRAM storage

July 22, 2014 4:12 pm | by EurekAlert! | Comments

Interest in magnetic random access memory (MRAM) is escalating, thanks to demand for fast, low-cost, nonvolatile, low-consumption, secure memory devices. MRAM, which relies on manipulating the magnetization of materials for data storage rather than electronic charges....



Fly-inspired sound detector

July 22, 2014 4:08 pm | by EurekAlert! | Comments

Even within a phylum so full of mean little creatures, the yellow-colored Ormia ochracea fly is distinguished among other arthropods for its cruelty -- at least to crickets. Native to the southeastern U.S. states and Central America, the fly is a most predatory sort of parasite....

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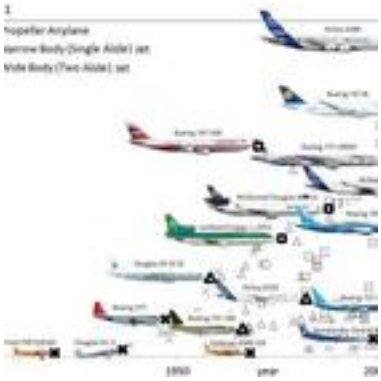


The evolution of airplanes

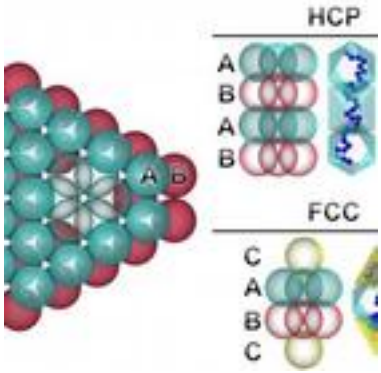
July 22, 2014 3:39 pm | by EurekAlert! | Comments

One of the traditional arguments against Darwinian evolution has been that no one can confirm the process exists because it occurs on a time scale immensely greater than a human lifetime. Adrian Bejan, the J. A. Jones Distinguished Professor of Mechanical Engineering at Duke University, has disagreed with that notion ever since 1996....

Quantum leap in lasers at Dartmouth brightens future for quantum computing

July 22, 2014 2:55 pm | by EurekAlert! | Comments

Dartmouth scientists and their colleagues have devised a breakthrough laser that uses a single artificial atom to generate and emit particles of light. The laser may play a crucial role in the development of quantum computers, which are predicted to eventually outperform today's most powerful supercomputers....



Technique simplifies the creation of high-tech crystals

July 22, 2014 2:42 pm | by EurekAlert! | Comments

Highly purified crystals that split light with uncanny precision are key parts of high-powered lenses, specialized optics and, potentially, computers that manipulate light instead of electricity. But producing these crystals by current techniques, such as etching them with a precise beam of electrons, is often extremely difficult and expensive....

'Comb on a chip' powers new NIST/Caltech atomic clock design

July 22, 2014 2:38 pm | by EurekAlert! | Comments

Researchers from the National Institute of Standards and Technology (NIST) and California Institute of Technology (Caltech) have demonstrated a new design for an atomic clock that is based on a chip-scale frequency comb, or a microcomb....

NIST shows ultrasonically propelled nanorods spin dizzyingly fast

July 22, 2014 12:52 pm | by EurekAlert! | Comments

Vibrate a solution of rod-shaped metal nanoparticles in water with ultrasound and they'll spin around their long axes like tiny drill bits. Why? No one yet knows exactly. But researchers at the National Institute of Standards and Technology (NIST) have clocked their speed—and it's fast....

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Seals forage at offshore wind farms

July 22, 2014 12:41 pm | by EurekAlert! | Comments

By using sophisticated GPS tracking to monitor seals' every movement, researchers have shown for the first time that some individuals are repeatedly drawn to offshore wind farms and pipelines. Those man-made structures probably serve as artificial reefs and attractive hunting grounds....

Obama commemorates moon landing's 45th anniversary

July 22, 2014 12:38 pm | by Associated Press | Comments

This week's 45th anniversary of man's first landing on the moon is being celebrated at the White House. President Barack Obama met with representatives of the Apollo 11 mission in the Oval Office Tuesday morning. Apollo 11 landed on the lunar surface on July 20, 1969....

Review: Tech goodies to bring along on trips

July 22, 2014 12:36 pm | by ANICK JESDANUN, AP Technology Writer | Comments

Your swimsuit and your sunscreen are in the luggage, and your boarding passes are all printed out. But did you remember your gadgets and chargers? Did you download enough entertainment? Do you know where you're going? In my travels, I've come across a number of products and services worth bringing along....

Japan approves joint missile study, export to US

July 22, 2014 12:33 pm | by Mari Yamaguchi, Associated Press | Comments

Japan has approved the export of a locally-made component for a missile defense system to the U.S. and is launching joint research with Britain on air-to-air missile technology for fighter jets. The approval late Thursday marks the first defense technology transfer since Japan eased military export rules in April....

TOPICS:

- Military & Aerospace

Goodwill, feds investigate possible data breach

July 22, 2014 12:31 pm | by Associated Press | Comments

Nonprofit organization Goodwill Industries Inc. is working with federal officials to investigate a possible security breach. The Rockville, Maryland-based organization said late Monday that it was contacted Friday by a payment card industry fraud investigative unit and federal authorities who said payment card numbers may have been stolen....

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Microsoft makes design central to its future

July 21, 2014 4:14 pm | by Ryan Nakashima - AP Business Writer - Associated Press | Comments

Before Ralf Groene helped devise the look and feel of Microsoft's Surface tablet, he designed food — or "food concepts," he says, for people on the go. Among them: dried noodles that come wrapped around a pair of chopsticks; a tubular meal that can be pulled with two fingers from a car cup holder...

New inexpensive and easy computer software provides real-time and highly accurate data on traffic

July 21, 2014 3:16 pm | by EurekAlert! | Comments

Researchers at the University of Granada have designed new software that provides real time data on traffic. It is a device that provides information on traffic flow between cities. Drivers can use this information to choose the fastest route as they plan to drive to their destinations....

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