The Lead

Photos of the Day: A smartgun that calls for automated backup

December 3, 2014 | by ECN Staff | Comments

The .9 mm pistol would contain a chip that communicated with the officer's smart phone to send a "yellow" alert when the gun is drawn and a "red" alert when fired. Santa Cruz Sheriff Phil Wowak — whose department is testing the new system ...

TOPICS:

- Photos of the Day

Gift Guide: Get better at sports with smart gear

December 3, 2014 9:40 am | by RON HARRIS, Associated Press | Comments

Advances in technology present sports enthusiasts with plenty of options to...

Gift Guide: Gadgets for avid TV viewers

December 3, 2014 9:28 am | by ANICK JESDANUN, AP Technology Writer | Comments

For avid television viewers out there, the standard digital-video recorder...

Army's mobile satellite network enables rapid fire missions

December 3, 2014 8:56 am | by U.S. Army | Comments

During the latest test of the Army's mobile tactical communications network, Warfighter...

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Drones become popular holiday gifts

December 23, 2014 4:38 pm | by Mae Anderson, AP Technology Writer | Comments

Santa's sleigh isn't the only thing flying this holiday season. Drones — flying devices that often carry cameras and can be navigated remotely by smartphones or controllers — have "taken off" as popular gifts as novices have become just as

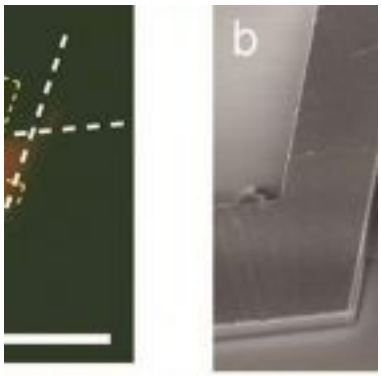
interested in ...
TOPICS:

- Unmanned Aerial Vehicles
- Military & Aerospace

Hands on: Crafting ultrathin color coatings

December 23, 2014 4:01 pm | by EurekAlert! | Comments

In a sub-basement deep below the Laboratory for Integrated Science and Engineering at Harvard University, Mikhail Kats gets dressed. Mesh shoe covers, a face mask, a hair net, a pale gray jumpsuit, knee-high fabric boots, vinyl gloves, safety goggles ...



Piezoelectricity in a 2-D semiconductor

December 23, 2014 2:53 pm | by EurekAlert! | Comments

A door has been opened to low-power off/on switches in micro-electro-mechanical systems (MEMS) and nanoelectronic devices, as well as ultrasensitive bio-sensors, with the first observation of piezoelectricity in a free standing two-dimensional semiconductor by ...

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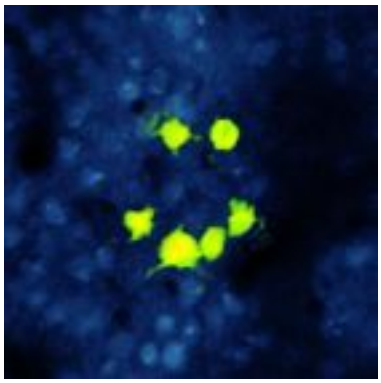
NREL receives Editors' Choice Awards for supercomputer research

December 23, 2014 2:48 pm | by EurekAlert! | Comments

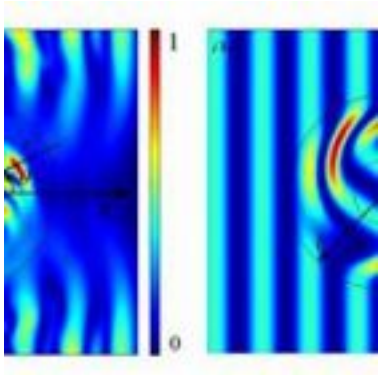
Two prestigious scientific magazines have awarded the Energy Department's National Renewable Energy Laboratory (NREL) with Editors' Choice awards for the Peregrine high-performance computer and the groundbreaking research it made possible....



Using light to understand the brain

December 23, 2014 2:45 pm | by EurekAlert! | Comments

UCL researchers have developed an innovative way to understand how the brain works by using flashes of light, allowing them to both 'read' and 'write' brain signals. The new technique, described in Nature Methods, combines two cutting-edge technologies for ...



The accurate elastodynamic equations for inhomogeneous media

December 23, 2014 2:40 pm | by EurekAlert! | Comments

The elastodynamic equations for inhomogeneous media are crucial to the seismology, the NDT of composites, the elastic metamaterials, etc. Recently, Dr. XIANG Zhihai from the Applied Mechanics Laboratory, Department of Engineering Mechanics, Tsinghua University ...

Reproducing the mechanical property of granular materials

December 23, 2014 2:27 pm | by EurekAlert! | Comments

Mechanical property of granular materials in landslide is of great significance. A recent research demonstrates that the numerical triaxial apparatus based on discrete element method is able to simulate and reproduce the triaxial tests in laboratory, which is ...

Watts up -- Planes go hybrid-electric

December 23, 2014 2:23 pm | by EurekAlert! | Comments

Researchers from the University of Cambridge, in association with Boeing, have successfully tested the first aircraft to be powered by a parallel hybrid-electric propulsion system, where an electric motor and petrol engine work together to drive the ...

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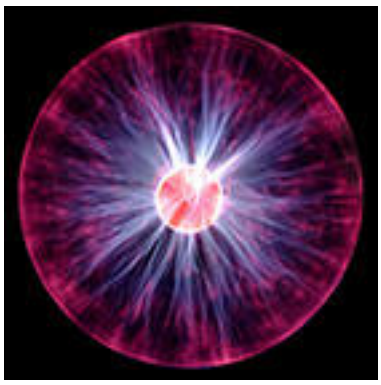
'Mind the gap' between atomically thin materials

December 23, 2014 1:45 pm | by EurekAlert! | Comments

When it comes to engineering single-layer atomic structures, "minding the gap" will help researchers create artificial electronic materials one atomic layer at a time, according to a team of materials scientists. The gap is a miniscule vacuum that researchers ...



How electrons split: New evidence of exotic behaviors

December 23, 2014 1:33 pm | by EurekAlert! | Comments

Electrons may be seen as small magnets that also carry a negative electrical charge. On a fundamental level, these two properties are indivisible. However, in certain materials where the electrons are constrained in a quasi one-dimensional ...

Avnet Electronics Marketing Americas celebrates 40-year milestone with Texas Instruments

December 23, 2014 1:26 pm | Comments

Avnet Electronics Marketing Americas and supplier Texas Instruments Inc. are celebrating their 40-year business relationship. Together, Avnet and TI have innovated support models that give design chain and supply chain customers better access to ...

Smartphone thumb skills are altering our brains

December 23, 2014 1:03 pm | by University of Zurich | Comments

Every region of the body -- from the toes to the jaw and tongue -- has a particular processing area in our emotional center in the brain, the somatosensory cortex. These areas are flexible and can change. In the case of violinists, for instance, the area ...

2 astronauts will expand envelope with 1-year spaceflight

December 23, 2014 12:58 pm | by MARCIA DUNN, AP Aerospace Writer | Comments

The two men assigned to a one-year spaceflight said Thursday that their upcoming mission will allow the world to push deeper into space. NASA astronaut Scott Kelly and Russian cosmonaut Mikhail Kornienko will rocket into orbit from Kazakhstan in ...

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North Korea experiencing severe Internet outages

December 23, 2014 12:55 pm | by ERIC TUCKER, Associated Press | Comments

North Korea experienced sweeping Internet outages for hours before coming back online late Monday. One computer expert said the country's online access was

"totally down." The White House and the State Department declined to say whether ...

It's becoming easier to shop overseas this holiday season

December 23, 2014 12:51 pm | by MAE ANDERSON, AP Technology Writer | Comments

This holiday season, it's almost as simple to shop on the other side of the world as it is to buy from a store down the block. International online payment services like AliPay and PayPal are trying to ensure that a South Carolina fashionista can buy a ...

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