The Lead

Entries open for ECN IMPACT Awards, celebrating excellence in electronics design

August 12, 2014 | Comments

Companies from across the global electronics design landscape are invited to submit their stand-out products and services — in 24 categories — for consideration by a panel of judges for the 2015 ECN IMPACT Awards. The entry period opens today at www.ecnawards.com and ends January 19, 2015....

TOPICS:

- IMPACT Awards
- EDS

Obama takes step to improve government technology

August 12, 2014 3:52 pm | by JULIE PACE and STACY A. ANDERSON, Associated Press | Comments

The White House on Monday announced the creation of a team of digital experts...

Photos of the Day: A self-folding origami robot

August 12, 2014 12:09 pm | by ECN Staff | Comments

This tiny robot from Harvard microrobotics engineers Sam Felton and Robert Wood is a self-...

Photos of the Day: Supermileage car gets 383 MPG

August 5, 2014 12:15 pm | by Freudenberg-NOK Sealing Technologies | Comments

Freudenberg-NOK Sealing Technologies hosted two Concordia University students, along with their...

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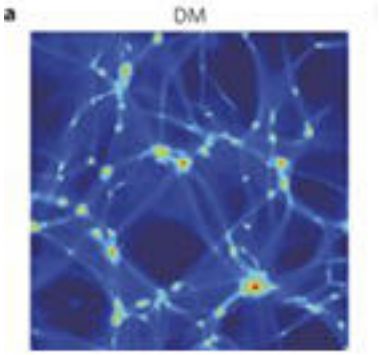
OSIT
Occupational Safety in Transport Conference

Car hacking: The security threat facing our vehicles

September 17, 2014 4:07 pm | by EurekAlert! | Comments

The car of the future will be safer, smarter and offer greater high-tech gadgets, but be warned without improved security the risk of car hacking is real, according to a QUT road safety expert. Professor Andry Rakotonirainy will speak at ...
TOPICS:

- Automotive



Reinterpreting dark matter

September 17, 2014 4:02 pm | by EurekAlert! | Comments
In cosmology, cold dark matter is a form of matter the particles of which move slowly in comparison with light, and interact weakly with electromagnetic radiation. It is estimated that only a minute fraction of the matter in the Universe is baryonic matter....

Using solar energy to turn raw materials into ingredients for every day life

September 17, 2014 3:58 pm | by EurekAlert! | Comments
Just about everything we touch in the course of a day - car, phone, computer, fridge, detergent - even medicines, rely on the chemical industry to turn raw

materials such as petroleum by-products, minerals and farm products into valuable chemicals....

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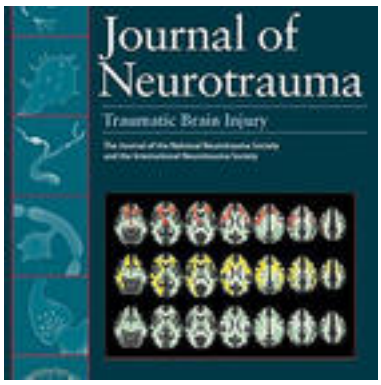
American-made wind turbine blades

September 17, 2014 3:31 pm | by Sandia National Laboratories | Comments
Sandia National Laboratories is helping makers of wind turbine blades improve the labor productivity associated with blade fabrication and finishing. This improved productivity makes domestic blades more cost competitive with blades from countries ...

Toward making lithium-sulfur batteries a commercial reality for a bigger energy punch

September 17, 2014 3:24 pm | by EurekAlert! | Comments
A fevered search for the next great high-energy, rechargeable battery technology is on. Scientists are now reporting they have overcome key obstacles toward making lithium-sulfur (Li-S) batteries, which have the potential to leave today's lithium-ion ...



New MRI technique helps clinicians better predict outcomes following mild traumatic brain injury

September 17, 2014 3:20 pm | by EurekAlert! | Comments

Diffusion Tensor Imaging (DTI), a specialized magnetic resonance imaging (MRI) technique that detects microstructural changes in brain tissue, can help physicians better predict the likelihood for poor clinical outcomes following mild traumatic brain injury ...

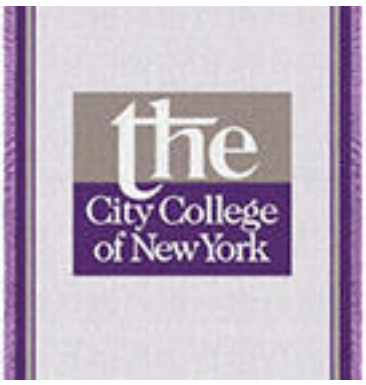
Engineers develop algorithms to switch out and recharge battery modules in electric cars

September 17, 2014 3:16 pm | by EurekAlert! | Comments

Imagine being able to switch out the batteries in electric cars just like you switch out batteries in a photo camera or flashlight. A team of engineers at the University of California, San Diego, are trying to accomplish just that, in partnership with ...

TOPICS:

- Automotive



Oxides discovered by CCNY team could advance memory devices

September 17, 2014 3:11 pm | by EurekAlert! | Comments

The quest for the ultimate memory device for computing may have just taken an encouraging step forward. Researchers at The City College of New York led by chemist Stephen O'Brien have discovered new complex oxides that exhibit both magnetic ...

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Smallest known galaxy with a supermassive black hole

September 17, 2014 3:06 pm | by EurekAlert! | Comments

A University of Utah astronomer and his colleagues discovered that an ultracompact dwarf galaxy harbors a supermassive black hole – the smallest galaxy known to contain such a massive light-sucking object. The finding suggests huge black holes ...

Nature's designs inspire research into new light-based technologies

September 17, 2014 3:03 pm | by EurekAlert! | Comments

"Nature has developed, very cleverly, some lessons on how to create the features that we desire in optical design," said Joseph Shaw, director of the Optical Technology Center at Montana State University. "As we explore surfaces and structures ...

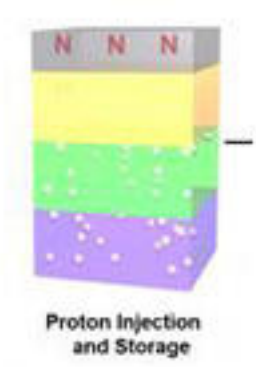
Nujira and Rohde & Schwarz host joint seminars on testing Envelope Tracking performance for Chinese market

September 17, 2014 12:17 pm | by Nujira Ltd. and Rohde & Schwarz | Comments

Nujira Ltd, the global Envelope Tracking (ET) chip company, and Rohde & Schwarz, leaders in test and measurement, will be hosting a series of joint seminars in China on how ET improves LTE battery life. The two companies will demonstrate test ...

TOPICS:

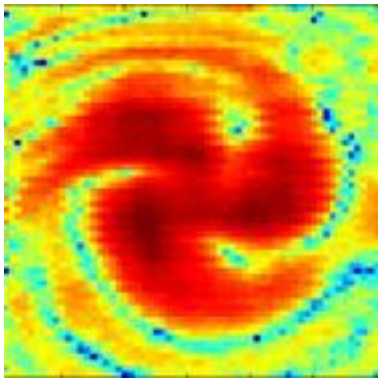
- Communications, Telecom/Datacom
- Wireless



For electronics beyond silicon, a new contender emerges

September 17, 2014 9:13 am | by EurekAlert! | Comments

Silicon has few serious competitors as the material of choice in the electronics industry. Yet transistors, the switchable valves that control the flow of electrons in a circuit, cannot simply keep shrinking to meet the needs of powerful, compact ...



Scientists twist radio beams to send data

September 17, 2014 9:08 am | by EurekAlert! | Comments

Building on previous research that twisted light to send data at unheard-of speeds, scientists at USC have developed a similar technique with radiowaves, reaching high speeds without some of the hassles that can go with optical systems....

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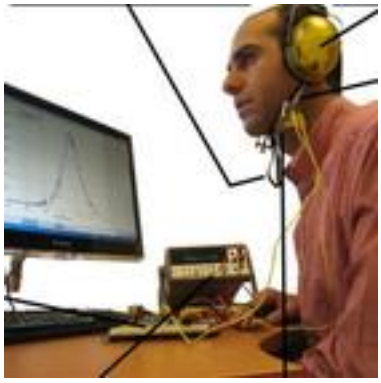
UCI team is first to capture motion of single molecule in real time

September 17, 2014 9:05 am | by EurekAlert! | Comments

UC Irvine chemists have scored a scientific first: capturing moving images of a single molecule as it vibrates, or "breathes," and shifts from one quantum state to another. The groundbreaking achievement, led by Ara Apkarian, professor ...



'Smart material' chin strap harvests energy from chewing

September 17, 2014 8:52 am | by EurekAlert! | Comments

A chin strap that can harvest energy from jaw movements has been created by a group of researchers in Canada. It is hoped that the device can generate electricity from eating, chewing and talking, and power a number of small-scale implantable ...

Pages

- 1
- 2
- 3

- 4
- 5
- 6
- 7
- 8
- 9
- …
- next ›
- last »

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