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...

View Sample

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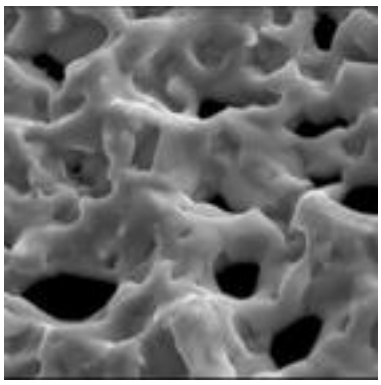
The ECN Daily

Neuroscientists watch imagination happening in the brain

August 28, 2014 2:25 pm | by EurekAlert! | Comments

"You may say I'm a dreamer, but I'm not the only one," sang John Lennon in his 1971 song Imagine. And thanks to the dreams of a BYU student, we now know more about where and how imagination happens in our brains. Stefania Ashby and her faculty mentor devised experiments....



Filter technology -- uses inert gas to bore holes in high-quality steel

August 28, 2014 2:22 pm | by EurekAlert! | Comments

Two early-stage venture capital investors are joining the i3 Membrane GmbH startup in August 2014. High-Tech Gründerfonds (HTGF) of Bonn and Innovationsstarter Fonds of Hamburg are investing in development and marketing of a novel filter technology....

Quantum physics enables revolutionary imaging method

August 28, 2014 2:19 pm | by EurekAlert! | Comments

Researchers from the Institute for Quantum Optics and Quantum Information (IQOQI), the Vienna Center for Quantum Science and Technology (VCQ), and the University of Vienna have developed a fundamentally new quantum imaging technique with strikingly counterintuitive features....

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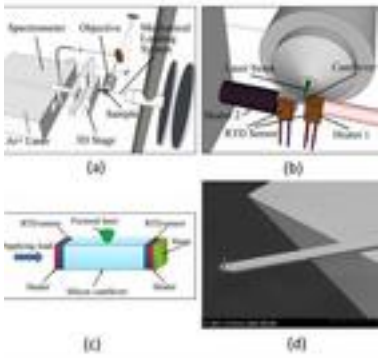
Samsung smartwatch won't need companion phone

August 28, 2014 2:16 pm | by Anick Jesdanun - AP Technology Writer - Associated Press | Comments

Samsung has unveiled a computerized wristwatch that can do more without a smartphone to go with it, while LG has one with a round design. Thursday's announcements come as technology companies prepare for the holiday shopping season. Apple is also believed to be working on its own smartwatch, and...



New analytical technology reveals 'nanomechanical' surface traits

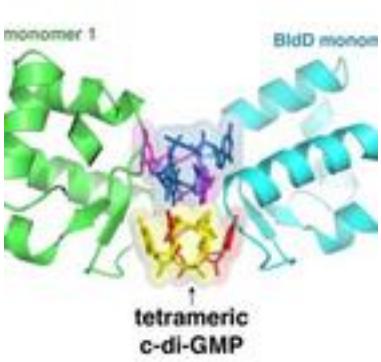
August 28, 2014 2:16 pm | by EurekAlert! | Comments

A new research platform uses a laser to measure the "nanomechanical" properties of tiny structures undergoing stress and heating, an approach likely to yield insights to improve designs for microelectronics and batteries. This new technique, called nanomechanical Raman spectroscopy ...

A new, tunable device for spintronics

August 28, 2014 2:12 pm | by EurekAlert! | Comments

Spin-charge converters are important devices in spintronics, an electronic which is not only based on the charge of electrons but also on their spin and the spin-related magnetism. Spin-charge converters enable the transformation of electric into magnetic signals and vice versa....



Small molecule acts as on-off switch for nature's antibiotic factory

August 28, 2014 2:04 pm | by EurekAlert! | Comments

Scientists have identified the developmental on-off switch for *Streptomyces*, a group of soil microbes that produce more than two-thirds of the world's naturally derived antibiotic medicines. Their hope now would be to see whether it is possible....

Nanoscale assembly line

August 28, 2014 2:01 pm | by EurekAlert! | Comments

Cars, planes and many electronic products are now built with the help of sophisticated assembly lines. Mobile assembly carriers, on to which the objects are fixed, are an important part of these assembly lines. In the case of a car body, the assembly components are attached....

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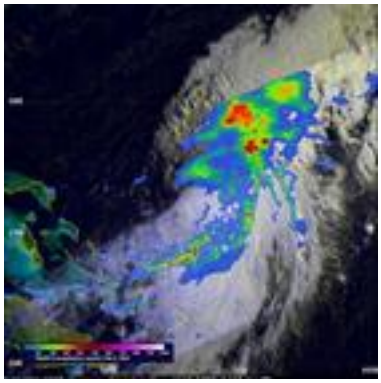
Study: Social media users shy away from opinions

August 28, 2014 2:00 pm | by Anne Flaherty, Associated Press | Comments
People who use Facebook and Twitter are less likely than others to share their opinions on hot-button issues, even when they are offline, according to a surprising new survey by the Pew Research Center. The study, done in conjunction with Rutgers University in New Jersey ...

Apple loses bid to block sales of 9 Samsung phones

August 28, 2014 12:55 pm | by The Associated Press | Comments
A federal judge has rejected Apple's attempt to block the sale of several older Samsung smartphones that copied features in the iPhone. Wednesday's rebuff comes nearly four months after a jury awarded Apple Inc. $119 million in damages for Samsung's infringements on technology....



NASA's TRMM Satellite sees powerful towering storms in Cristobal

August 28, 2014 9:18 am | by EurekAlert! | Comments
NASA's TRMM satellite identified areas of heavy rainfall occurring in Hurricane Cristobal as it continued strengthening on approach to Bermuda. NASA's Tropical Rainfall Measuring Mission or TRMM satellite flew above Hurricane Cristobal on August 26 at 11:35 UTC (7:35 a.m. EDT) gathering rainfall data....
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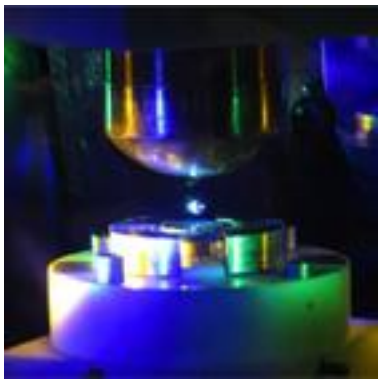
- Computing
- Military & Aerospace
- Optoelectronics & Displays
- Wireless



Experiments explain why some liquids are 'fragile' and others are 'strong'

August 28, 2014 9:13 am | by EurekAlert! | Comments

Only recently has it become possible to accurately "see" the structure of a liquid. Using X-rays and a high-tech apparatus that holds liquids without a container, Kenneth Kelton, PhD, the Arthur Holly Compton Professor in Arts & Sciences at Washington University in St. Louis, was able to compare the behavior of glass-forming liquids as they approach the glass transition....

TOPICS:

- Computing
- Distribution & Design Services
- Power

Novel 'butterfly' molecule could build new sensors, photoenergy conversion devices

August 28, 2014 9:09 am | by EurekAlert! | Comments

Exciting new work by a Florida State University research team has led to a novel molecular system that can take your temperature, emit white light, and convert photon energy directly to mechanical motions. And, the molecule looks like a butterfly....

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- Solid-state lighting
- Computing
- Consumer
- Medical

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Research geared to keep women from fleeing IT profession

August 28, 2014 9:05 am | by EurekAlert! | Comments

For years, employers and experts have been trying to reverse the exodus of women from information technology positions.They're failing. Studies show that women are significantly underrepresented in the IT field, and the number of women who've graduated with degrees in computer and information science have plummeted from 37 percent in 1985 to 18 percent in 2011....

TOPICS:

- Communications, Telecom/Datacom
- Consumer
- Industrial

Two Ames Laboratory scientists named 'Most Influential Scientific Minds'

August 28, 2014 9:01 am | by EurekAlert! | Comments

Two Ames Laboratory physicists, Paul Canfield and Sergey Bud'ko, were recently named to Thomson Reuters' World's Most Influential Scientific Minds 2014. Researchers earned inclusion on the list by writing the greatest number of highly cited papers, ranking among the top 1 percent for their subject field and year of publication between 2002 and 2012....

TOPICS:

- Consumer
- Distribution & Design Services

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