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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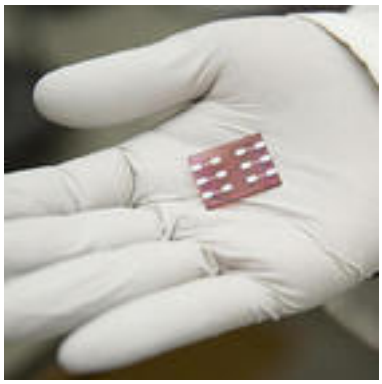


UChicago-Argonne National Lab team improves solar-cell efficiency

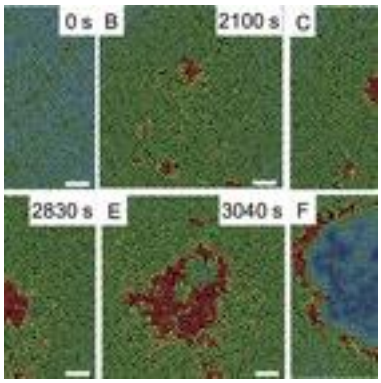
September 19, 2014 4:27 pm | by EurekAlert! | Comments

New light has been shed on solar power generation using devices made with polymers, thanks to a collaboration between scientists in the University of Chicago's chemistry department, the Institute for Molecular Engineering, and Argonne....

University students awarded with multiple scholarships at the Yokogawa Users Conference and Exhibition – North America

September 19, 2014 4:17 pm | Comments

Yokogawa Corporation of America announces the contribution of a student scholarship to deserving graduate and undergraduate college students, awarded at the company's 2014 Users Conference and Exhibition. A total of five individual scholarships ...



Penn research helps uncover mechanism behind solid-solid phase transitions

September 19, 2014 3:37 pm | by EurekAlert! | Comments

Two solids made of the same elements but with different geometric arrangements of the atoms, or crystal phases, can produce materials with different properties. Coal and diamond offer a spectacular example of this effect. While it is well

known....
TOPICS:

- Internet of Things
- Solid-state lighting
- Industrial
- Optoelectronics & Displays

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NRL, aerospace industry hosts 10th annual CanSat Student Challenge

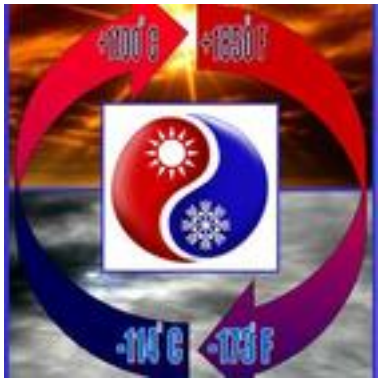
September 19, 2014 3:29 pm | by EurekAlert! | Comments
Created in 2004 by the American Astronautical Society (AAS) and American Institute of Aeronautics and Astronautics (AIAA), the Texas CanSat Competition is an undergraduate and graduate level design-build-launch event simulating the end-to-end....
TOPICS:

- Internet of Things
- Unmanned Aerial Vehicles
- Computing
- Military & Aerospace

Energy efficiency in buildings increases thanks to the HIFIVENT project

September 19, 2014 2:12 pm | by EurekAlert! | Comments

Tecnalia is coordinating the European HIFIVENT project, which is seeking to develop a new concept of ventilated façade that will improve the energy efficiency of buildings. With this project it will be possible to cut energy consumption while achieving ...



Quick-change materials break the silicon speed limit for computers

September 19, 2014 1:58 pm | by EurekAlert! | Comments

The present size and speed limitations of computer processors and memory could be overcome by replacing silicon with 'phase-change materials' (PCMs), which are capable of reversibly switching between two structural phases with different ...

Reflected smartphone transmissions enable gesture control

September 19, 2014 1:55 pm | by EurekAlert! | Comments

With almost all of the U.S. population armed with cellphones – and close to 80 percent carrying a smartphone – mobile phones have become second-nature for most people. What's coming next, say University of Washington researchers, is the ability ...

Soft robotics 'toolkit' features everything a robot-maker needs

September 19, 2014 1:51 pm | by EurekAlert! | Comments

A new resource unveiled today by researchers from several Harvard University labs in collaboration with Trinity College Dublin provides both experienced and aspiring researchers with the intellectual raw materials needed to design, build ...

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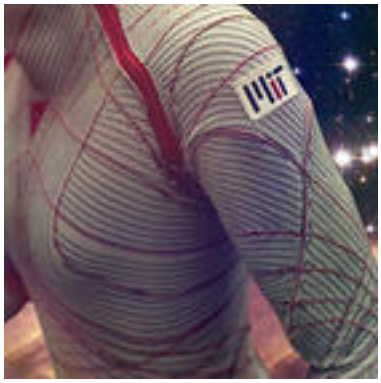
Fingertip sensor gives robot unprecedented dexterity

September 19, 2014 1:44 pm | by EurekAlert! | Comments

Researchers at MIT and Northeastern University have equipped a robot with a novel tactile sensor that lets it grasp a USB cable draped freely over a hook and insert it into a USB port. The sensor is an adaptation of a technology called GelSight....



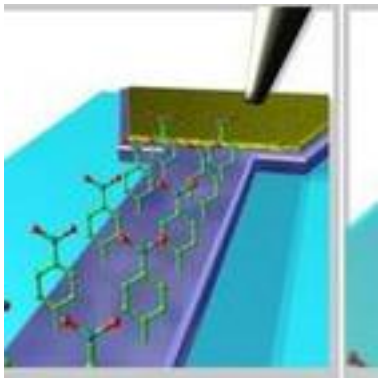
Shrink-wrapping spacesuits

September 19, 2014 1:36 pm | by EurekAlert! | Comments

For future astronauts, the process of suiting up may go something like this: Instead of climbing into a conventional, bulky, gas-pressurized suit, an astronaut may don a lightweight, stretchy garment, lined with tiny, musclelike coils....

TOPICS:

- Military & Aerospace



Graphene sensor tracks down cancer biomarkers

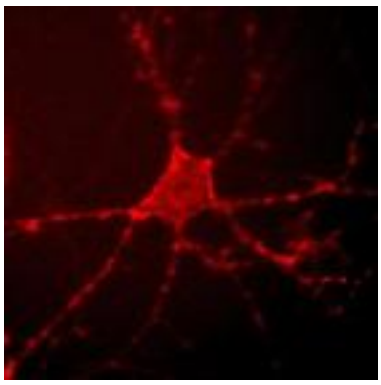
September 19, 2014 1:30 pm | by EurekAlert! | Comments

An ultrasensitive biosensor made from the wonder material graphene has been used to detect molecules that indicate an increased risk of developing cancer. The biosensor has been shown to be more than five times more sensitive than bioassay tests....

Apple locks itself out of devices with passwords

September 19, 2014 10:28 am | by The Associated Press | Comments

Apple has tightened its technological security so not even the company can pry into a password-protected iPhone or iPad in a move meant to reassure the millions of people who are increasingly storing vital pieces of their lives on the devices....



Sensing neuronal activity with light

September 19, 2014 10:25 am | by EurekAlert! | Comments

For years, neuroscientists have been trying to develop tools that would allow them to clearly view the brain's circuitry in action—from the first moment a neuron fires to the resulting behavior in a whole organism. To get this complete picture....

TOPICS:

- Internet of Things
- Industrial
- Medical

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Type N thermocouple wire features desirable repeatability and resistance to oxidation

September 19, 2014 10:22 am | Comments

Watlow announced it offers “N” Type thermocouple wire, which is said to provide superior repeatability and resistance to oxidation than “K” Type wire at high temperatures (1500°F and above) or in applications where sulfur is present.

Watlow's Type N thermocouple wire ...
TOPICS:

- Industrial
- Newsletters

Trial begins for MRI-compatible robot designed to improve accuracy of prostate biopsies

September 19, 2014 10:20 am | by EurekAlert! | Comments
A novel robotic system that can operate inside the bore of an MRI scanner is currently being tested as part of a biomedical research partnership program at Brigham and Women's Hospital in Boston with the aim of determining if the robot....
TOPICS:

- Computing
- Industrial
- Medical
- Optoelectronics & Displays

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