The Lead

The quantum Cheshire cat: Scientists separate a particle from its properties

July 30, 2014 | by ECN Staff | Comments

The Quantum Cheshire Cat: Can a particle be separated from its properties? On July 29, the prestigious journal, *Nature Communications*, published the results of the first Cheshire Cat experiment, separating a neutron from its magnetic field, conducted by Chapman University in Orange, CA, and Vienna University of Technology....

Photos of the Day: Giant robotic creature is 14-feet tall

July 24, 2014 8:44 am | by Stratasys Ltd. | Comments

The giant creature was designed by artists at the Stan Winston School. Engineers and technicians...

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

July 11, 2014 12:57 pm | by ECN Staff | Comments

The Navy's robo-tuna, designed by Boston Engineering, is a 4-foot long unmanned undersea vehicle...

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...

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The ECN Daily

Photos of the Day: eVe — Australia's record-breaking solar-powered car

July 31, 2014 2:31 pm | by ECN Staff | Comments

The eVe, from the Sunswift project, a group of students from the University of New South Wales, Australia, has officially broken the world speed record for an electric vehicle. The Sunswift vehicle averaged 62 mph over 311 miles at the Australian Automotive research Center in Victoria....

TOPICS:

- Photos of the Day
- Automotive
- Power
- The Efficiency Zone

Key to aging immune system is discovered

July 31, 2014 11:21 am | by EurekAlert! | Comments

There's a good reason people over 60 are not donor candidates for bone marrow transplantation. The immune system ages and weakens with time, making the elderly prone to life-threatening infection and other maladies, and a UC San Francisco research team now has discovered a reason why....

TOPICS:

- Medical

Research reveals pervasive implicit hierarchies for race, religion, and age

July 31, 2014 11:17 am | by EurekAlert! | Comments

As much as social equality is advocated in the United States, a new study suggests that besides evaluating their own race and religion most favorably, people share implicit hierarchies for racial, religious, and age groups that may be different from their conscious, explicit attitudes and values....

TOPICS:

- Communications, Telecom/Datacom
- Power

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Misinformation diffusing online

July 31, 2014 11:15 am | by EurekAlert! | Comments

The spread of misinformation through online social networks is becoming an increasingly worrying problem. Researchers in India have now modeled how such fictions and diffuse through those networks. They described details of their research and the taxonomy that could help those who run, regulate and use online social networks better understand how to slow or even prevent the spread of misinformation to the wider public....

TOPICS:

- Computing
- Consumer

The Rim Fire 1 year later: A natural experiment in fire ecology and management

July 31, 2014 11:09 am | by EurekAlert! | Comments

The enormous conflagration known as the Rim Fire was in full fury, raging swiftly from crown to crown among mature trees, when it entered the backcountry of Yosemite National Park in California's Sierra Nevada in late August 2013. But inside the park, the battle began to turn, enacting a case study in the way management decisions and drought can combine to fuel large, severe fires....

TOPICS:

- Industrial

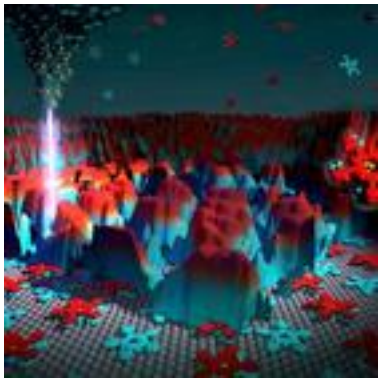
NSF grant to Wayne State supports new concept for manufacturing nanoscale devices

July 31, 2014 11:06 am | by EurekAlert! | Comments

A professor from Wayne State University's College of Engineering recently received a $330,000 award from the National Science Foundation for the project, "Nanoparticle-directed synthesis of organic nanorods." According to the National

Science Foundation, nanotechnology is the creation and utilization of functional materials, devices, and systems with novel properties and functions....
TOPICS:

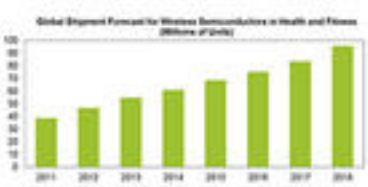
- Computing
- Consumer



Chemists demonstrate 'bricks-and-mortar' assembly of new molecular structures

July 31, 2014 11:02 am | by EurekAlert! | Comments
Chemists at Indiana University Bloomington have described the self-assembly of large, symmetrical molecules in bricks-and-mortar fashion, a development with potential value for the field of organic electronic devices such as field-effect transistors and photovoltaic cells....
TOPICS:

- Computing
- Distribution & Design Services
- Medical



Wireless connectivity semiconductors maintain strong double-digit growth in health and fitness

July 31, 2014 10:54 am | by IHS, Inc. | Comments

Semiconductors providing wireless connectivity in health and fitness devices are set for solid double-digit growth in 2014 and beyond, especially as a clutch of wireless technologies make their way into a growing number of wearable devices, according to a new report from IHS Technology. Shipments this year for wireless semiconductors in health and fitness will reach ...

TOPICS:

- Internet of Things
- Medical
- Newsletters

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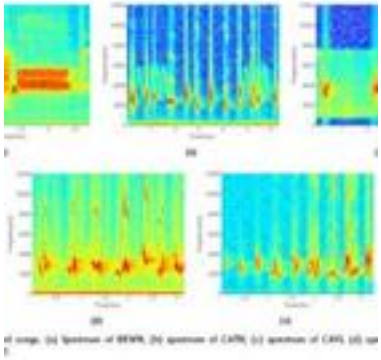

Singing the same tune: Scientists develop novel ways of separating birdsong sources

July 31, 2014 10:46 am | by EurekAlert! | Comments

Researchers at the University of California, Los Angeles and the Chinese Academy of Sciences have pioneered a new study that could greatly improve current methods of localising birdsong data. Their findings, which ascertain the validity of using statistical algorithms to detect multiple-source signals in real time and in three-dimensional space, are of especial significance to modern warfare....

TOPICS:

- Industrial
- Military & Aerospace

Vision-correcting electronic displays could let users dispense with glasses

July 31, 2014 10:36 am | by EurekAlert! | Comments

Researchers at the MIT Media Laboratory and the University of California at Berkeley have developed a new display technology that automatically corrects for vision defects — no glasses (or contact lenses) required. The technique could lead to dashboard-mounted GPS displays that farsighted drivers can consult without putting their glasses on, or electronic readers that eliminate the need for reading glasses, among other applications....

TOPICS:

- Automotive
- Consumer
- Medical

Charging electric cars efficiently inductive

July 31, 2014 10:32 am | by EurekAlert! | Comments

Cables are fast disappearing from our daily lives. The computer mouse has already lost its tail, our telephones and headphones have become wireless – even electric toothbrushes and cellphones don't need cables anymore. Information is transmitted wirelessly, and power needs can be met via an electromagnetic induction supply system....

TOPICS:

- Automotive
- Industrial
- Power
- Wireless

New apps smooth out your nighttime smartphone addiction

July 31, 2014 10:02 am | by A.J. Watts, Editorial Intern | Comments

My smartphone and I have built up a pretty special bond. I'm an Apple junkie, myself, but I understand why people love their "crackberries" – my iPhone almost feels like a part of me. That being said, a smartphone can also make it impossible to fall asleep sometimes....

TOPICS:

- Consumer
- ECN Editors
- Listicles
- Newsletters

Birthweight and breastfeeding have implications for children's health decades later

July 31, 2014 9:43 am | by EurekAlert! | Comments

Young adults who were breastfed for three months or more as babies have a

significantly lower risk of chronic inflammation associated with cardiovascular and metabolic diseases, according to research from the Brown School at Washington University in St. Louis....
TOPICS:

- Medical

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UK psychologist creates patient tool to assist with lung cancer screening decision

July 31, 2014 9:39 am | by EurekAlert! | Comments
The phrase "we caught it early" is possibly the best news a patient can hear in the midst of a cancer diagnosis. Combating cancer in its earliest stages, when the disease is localized to a certain part of the body, gives patients the best chances of survival....
TOPICS:

- Medical

Journal supplement details progress in African medical education

July 31, 2014 9:21 am | by EurekAlert! | Comments

Medical education in sub-Saharan Africa is being revitalized and expanded through a U.S.-funded effort that is dramatically increasing enrollment, broadening curricula, upgrading Internet access and providing cutting-edge skills labs and other technologies....

TOPICS:

- Medical
- Military & Aerospace

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