

## 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 ...

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### [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...

## News

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### [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...

[View Sample](#)

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The **ECN** Daily



### [Photos of the Day: 'World's First Family Robot' raises \\$2M](#)

January 29, 2015 9:03 am | by Melissa Fassbender, Editor, PD&D, @melfass | [Comments](#)

Jibo, "The World's First Family Robot," raised more than \$2 million on the crowdfunding platform Indiegogo, making it one of the most funded projects in the

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site's history. Turning to crowdfunding with the hope to raise Jibo awareness, as well as the social robotics movement ...

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### [Argonne model analyzes water footprint of biofuels](#)

January 29, 2015 1:10 am | by Argonne National Laboratory | [Comments](#)  
A new version of an online tool created by Argonne will help biofuels developers gain a detailed understanding of water consumption of various types of feedstocks, aiding development of sustainable fuels that will reduce impact on limited water resources....



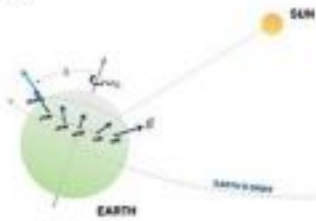
### [Envisioning pacemakers with Internet connections](#)

January 28, 2015 4:47 pm | by EurekAlert! | [Comments](#)  
The ageing of society needs new, more cost-effective solutions to improve the life quality of patients and cut the burden that is placed on the social welfare system. In modern western societies the fitting of pacemakers and implantable cardioverter defibrillators (ICDs) is ...

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field and wavefunction  
direction.



Lorentz-violation will modulate the em  
correlated with the Earth's motion.

## [Quantum computer shows space is not "squeezed"](#)

January 28, 2015 4:34 pm | by EurekaAlert! | [Comments](#)

Ever since Einstein proposed his special theory of relativity in 1905, physics and cosmology have been based on the assumption that space looks the same in all directions - that it's not squeezed in one direction relative to another. A new experiment by University of ...



## [Today in Engineering History: Space Shuttle Challenger explodes](#)

January 28, 2015 1:50 pm | by Kaylie Duffy, Associate Editor, PD&D, @kaylieandduffy | [Comments](#)

Today in engineering history, 1986, the Space Shuttle Challenger exploded just seconds after liftoff from Cape Canaveral, FL, killing the seven crew members aboard. Among those killed was a teacher from New Hampshire, Christa McAuliffe, who was supposed to ...

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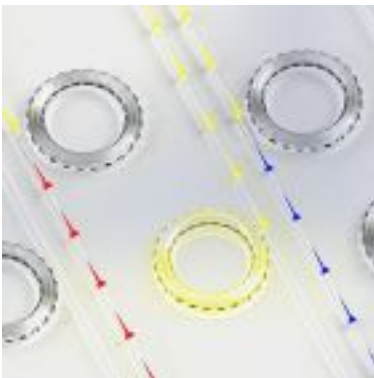
- [Military & Aerospace](#)

## [Scientists chart latest discoveries of iron-based superconductors](#)

January 28, 2015 1:42 pm | by EurekaAlert! | [Comments](#)  
Superconductivity is a remarkable macroscopic quantum phenomenon, discovered just over a century ago. As temperature decreases to below a critical value, the electric resistance of a superconductor vanishes and the magnetic field is repelled. Superconductors have many ...

## [Bitcoin scams steal at least \\$11 million in virtual deposits](#)

January 28, 2015 1:37 pm | by EurekaAlert! | [Comments](#)  
Fraudulent schemes have scammed at least \$11 million in Bitcoin deposits from unsuspecting cyber customers over the past four years, according to new cyber security research from Southern Methodist University, Dallas. Bitcoin is the digital world's most popular ...



## [Researchers use sound to slow down, speed up, and block light](#)

January 28, 2015 1:30 pm | by EurekaAlert! | [Comments](#)  
How do you make an optical fiber transmit light only one way? Researchers from the University of Illinois at Urbana-Champaign have experimentally demonstrated, for the first time, the phenomenon of Brillouin Scattering Induced Transparency ...

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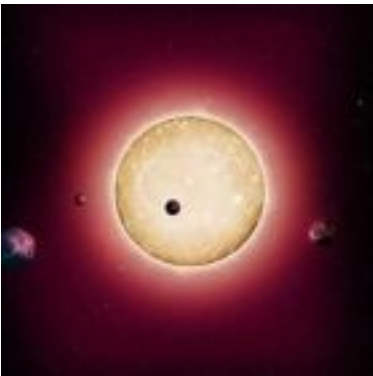
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### [Custom-tailored robotic exoskeletons fit to perfection](#)

January 28, 2015 1:24 pm | by EurekaAlert! | [Comments](#)

It wasn't too long ago that the idea of a wearable robot that would lend its user increased mobility and strength seemed like the stuff of science fiction; indeed, films like *Aliens* and *Iron Man*, which featured characters wearing powered exoskeletons, incited the imaginations of ...



### [Astronomers find solar system more than double ours in age](#)

January 28, 2015 12:44 pm | by MARCIA DUNN, AP Aerospace Writer | [Comments](#)

A newly discovered solar system - with five small rocky planets - makes ours look like a baby. An international team of astronomers announced Tuesday that this extrasolar system is 11.2 billion years old. With the age of the universe pegged at ...  
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### [Misfit wants this wristband to synch with your smart home](#)

January 28, 2015 12:11 pm | by Megan Crouse, Real-Time Digital Reporter, @abmdigi | [Comments](#)

Fitness monitor company Misfit is adding the Internet of Things to its Flash sleep and activity tracker. On Jan. 27 the company released details about Misfit Bolt, a smart bulb that can personalize home lighting using the Flash wristband, and a partnership with Nest and ...

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- [Optoelectronics & Displays](#)

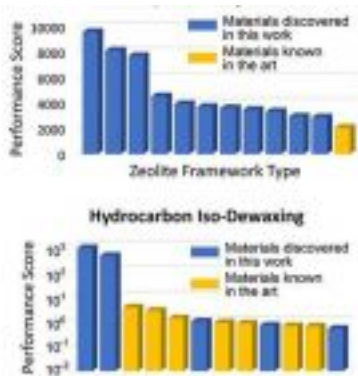


### [This robot learns, one step at a time](#)

January 28, 2015 12:06 pm | by Megan Crouse, Real-Time Digital Reporter, @abmdigi | [Comments](#)

Researchers at the L'Institut des Systèmes Intelligents et de Robotique (ISIR) in

France are teaching a robot how to evolve. The team, including Professor Jean-Baptiste Mouret and doctoral student Antoine Cully, use a six-legged robot called Creadapt to study how ...



## [Researchers identify materials to improve biofuel and petroleum processing](#)

January 28, 2015 11:35 am | by EurekaAlert! | [Comments](#)  
Using one of the largest supercomputers in the world, a team of researchers led by the University of Minnesota has identified potential materials that could improve the production of ethanol and petroleum products. The discovery could lead to major efficiencies and cost savings in ...

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## [Professor advances fuel cell car technology](#)

January 28, 2015 11:16 am | by Texas A&M University | [Comments](#)

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Electrochemical energy and polymer research unite in new ways to deliver best-case power scenarios behind the wheel—or specifically, under the hood. Environmentalists and road aficionados alike have applauded the production of fuel cell vehicles, but to sustain the appeal and ...

### [Former Samsung engineer develops file sharing app](#)

January 27, 2015 4:16 pm | by Megan Crouse, Real-Time Digital Reporter, @abmdigi | [Comments](#)

A former Samsung semiconductor design engineer has developed a file-sharing mobile app that is gaining ground in the United States, and has been a boon for Samsung, too. Nicole Kim worked for Samsung for six years, then took her career to smaller ...

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## Pages

- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- ...
- [next >](#)
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