

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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- [Photos of the Day](#)

[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...

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Published on Electronic Component News (<http://www.ecnmag.com>)

[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](#)

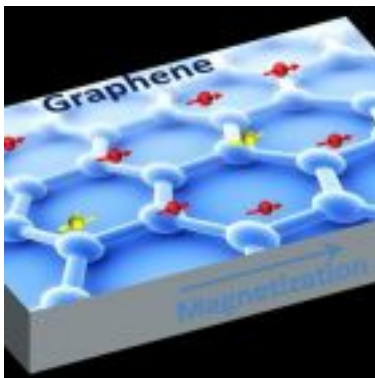
December 3, 2014 8:56 am | by U.S. Army | [Comments](#)

During the latest test of the Army's mobile tactical communications network, Warfighter...

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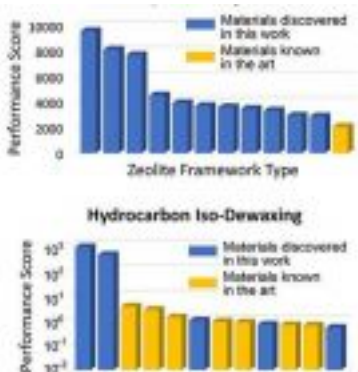
[Researchers make magnetic graphene](#)

January 27, 2015 3:15 pm | by EurekAlert! | [Comments](#)
Graphene, a one-atom thick sheet of carbon atoms arranged in a hexagonal lattice, has many desirable properties. Magnetism alas is not one of them. Magnetism can be induced in graphene by doping it with magnetic impurities, but this doping tends to ...



[Patents provide insight on Wall Street 'technology arms race'](#)

January 27, 2015 3:10 pm | by EurekaAlert! | [Comments](#)
A new study by New Zealand's University of Otago has used US patent data to shed light on the technological roots behind Wall Street's ongoing 'technology arms race'. The way financial assets are traded, and the nature of the markets themselves, has dramatically ...



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

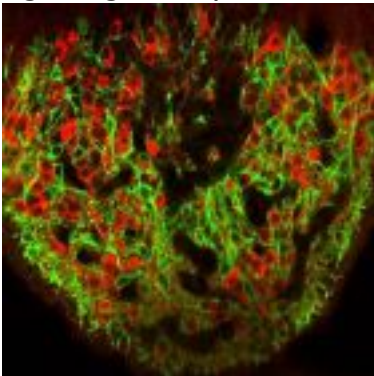
January 27, 2015 2:35 pm | by EurekaAlert! | [Comments](#)
Using one of the largest supercomputers in the world, a team of researchers led by the University of Minnesota has identified potential materials that could improve the production of ethanol and petroleum products. The discovery could lead to major efficiencies and cost savings in ...

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[Brain's on-off thirst switch identified](#)

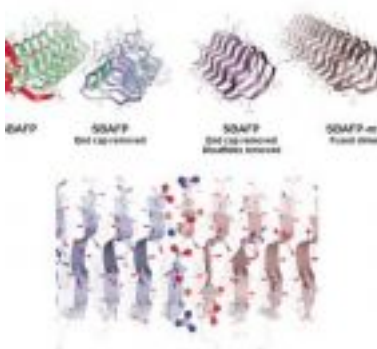
January 27, 2015 2:31 pm | by EurekaAlert! | [Comments](#)

Neurons that trigger our sense of thirst--and neurons that turn it off--have been identified by Columbia University Medical Center neuroscientists. The paper was published today in the online edition of Nature. For years, researchers have suspected that thirst is regulated by ...

[Electronic circuits with reconfigurable pathways closer to reality](#)

January 27, 2015 2:27 pm | by EurekaAlert! | [Comments](#)

Will it be possible one day to reconfigure electronic microchips however we want, even when they are in use? A recent discovery by a team at EPFL suggests as much. The researchers have demonstrated that it is possible to create conductive pathways several atoms ...

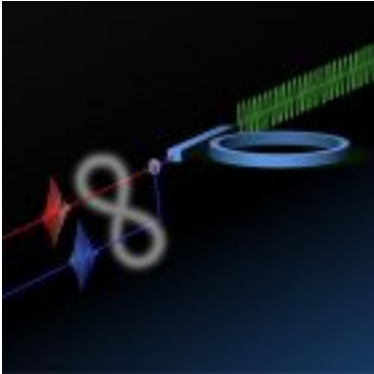


[Engineering self-assembling amyloid fibers](#)

News

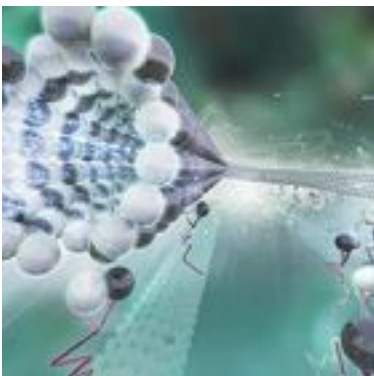
Published on Electronic Component News (<http://www.ecnmag.com>)

January 27, 2015 1:15 pm | by EurekaAlert! | [Comments](#)
Nature has many examples of self-assembly, and bioengineers are interested in copying or manipulating these systems to create useful new materials or devices. Amyloid proteins, for example, can self-assemble into the tangled plaques associated with Alzheimer's disease -- but ...



[Breakthrough promises secure communications and faster computers](#)

January 27, 2015 1:12 pm | by EurekaAlert! | [Comments](#)
Unlike Bilbo's magic ring, which entangles human hearts, engineers have created a new micro-ring that entangles individual particles of light, an important first step in a whole host of new technologies. Entanglement - the instantaneous connection between two ...



[Studying degradation in an active, autonomous nanomachine](#)

January 27, 2015 1:09 pm | by EurekaAlert! | [Comments](#)
As nanomachine design rapidly advances, researchers are moving from wondering if the nanomachine works to how long it will work. This is an especially important question as there are so many potential applications, for instance, for medical uses, including drug delivery, early diagnosis ...

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[Ancient star system reveals Earth-sized planets forming near start of universe](#)

January 27, 2015 1:04 pm | by EurekaAlert! | [Comments](#)

A Sun-like star with orbiting planets, dating back to the dawn of the Galaxy, has been discovered by an international team of astronomers. At 11.2 billion years old it is the oldest star with earth-sized planets ever found and proves that such planets have formed throughout ...

TOPICS:

- [Military & Aerospace](#)

[Using 3-D printing, MakerBot and Feinstein Institute repair tracheal damage](#)

January 27, 2015 1:01 pm | by EurekaAlert! | [Comments](#)

Investigators at The Feinstein Institute for Medical Research have made a medical breakthrough using 3D printing on a MakerBot® Replicator® 2X Experimental 3D Printer to create cartilage designed for tracheal repair or replacement. The results were reported today at the ...

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- [Medical](#)



[New search engine lets users look for relevant results faster](#)

January 27, 2015 12:58 pm | by EurekaAlert! | [Comments](#)
Researchers at the Helsinki Institute for Information Technology HIIT have developed a new search engine that outperforms current ones, and helps people to do searches more efficiently. The SciNet search engine is different because it changes internet searches ...



['Astro-archaeological' discovery from the dawn of time](#)

January 27, 2015 12:55 pm | by EurekaAlert! | [Comments](#)
Scientists led by University of Birmingham asteroseismologists have discovered a solar system with 5 Earth-sized planets dating back to the dawn of the Galaxy. Thanks to the NASA Kepler mission, the scientists announced today (Tuesday 27 January 2015) ...



[Does space flight inspire school students to take STEM subjects?](#)

January 27, 2015 12:52 pm | by EurekaAlert! | [Comments](#)
Science Education researchers at University of York are to work with leading space scientist and The Sky at Night presenter Dr Maggie Aderin-Pocock to investigate if human spaceflight inspires school students to take science, technology, engineering and maths ...

TOPICS:

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- [Military & Aerospace](#)

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[Carbon nanoballs can greatly contribute to sustainable energy supply](#)

January 27, 2015 12:50 pm | by EurekaAlert! | [Comments](#)
Researchers at Chalmers University of Technology have discovered that the insulation plastic used in high-voltage cables can withstand a 26 per cent higher

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voltage if nanometer-sized carbon balls are added. This could result in enormous efficiency gains in the ...



[The laser pulse that gets shorter all by itself](#)

January 27, 2015 12:47 pm | by EurekAlert! | [Comments](#)

In a marathon, everyone starts at roughly the same place at roughly the same time. But the faster runners will gradually increase their lead, and in the end, the distribution of runners on the street will be very broad. Something similar happens to a pulse of light sent ...

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