## The Lead

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

July 24, 2014 | by Stratasys Ltd. | Comments

The giant creature was designed by artists at the Stan Winston School. Engineers and technicians at Legacy Effects — the studio that brought to life Iron Man, Avatar, Pacific Rim and RoboCop characters — worked closely with Stratasys to build dozens of 3D-printed parts to create the character....

TOPICS:

- Photos of the Day

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...

Projecting a 3-dimensional future

July 9, 2014 12:47 pm | by EurekAlert! | Comments

Since the 1960s, theatergoers have shelled out for crude 3-D glasses, polarized glasses, and...

View Sample

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The ECN Daily

## Engineers developing safer, more accurate tracer round

July 29, 2014 8:20 am | by U.S. Army | Comments

Engineers at Picatinny Arsenal, N.J., are researching a way to develop a new type of tracer round that not only would perform its function during the day as well as night, but also improve shooter accuracy and keep Soldiers safer by reducing their visual signature.

## China investigating Microsoft in monopoly case

July 29, 2014 8:15 am | by The Associated Press | Comments

China's anti-monopoly agency has announced an investigation of Microsoft Corp., stepping up pressure on foreign technology companies. The agency said Tuesday it opened a case in June after complaints that Microsoft violated an anti-monopoly law by failing to publish all documentation related to...

## Physicists unlock nature of high-temperature superconductivity

July 28, 2014 4:08 pm | by EurekAlert! | Comments

Physicists have identified the "quantum glue" that underlies a promising type of superconductivity -- a crucial step towards the creation of energy superhighways that conduct electricity without current loss. The research, published online in the Proceedings of the National Academy of Sciences, is a collaboration....

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## Researchers discover cool-burning flames in space, could lead to better engines on earth

July 28, 2014 4:01 pm | by EurekAlert! | Comments

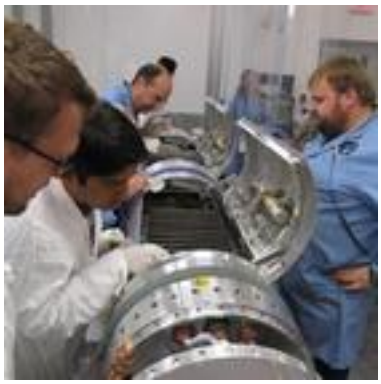
A team of international researchers has discovered a new type of cool burning flames that could lead to cleaner, more efficient engines for cars. The discovery was made during a series of experiments on the International Space Station by a team

led by Forman Williams, a professor of mechanical and aerospace engineering....
TOPICS:

- Military & Aerospace

## Superconductivity could form at high temperatures in layered 2D crystals

July 28, 2014 3:54 pm | by EurekAlert! | Comments
An elusive state of matter called superconductivity could be realized in stacks of sheetlike crystals just a few atoms thick, a trio of physicists has determined. Superconductivity, the flow of electrical current without resistance, is usually found in materials chilled to the most frigid temperatures....



## Glow in space is evidence of a hot bubble in our galaxy

July 28, 2014 2:17 pm | by EurekAlert! | Comments
When we look up to the heavens on a clear night, we see an immense dark sky with uncountable stars. With a small telescope we can also see galaxies, nebulae, and the disks of planets. If you look at the sky with an X-ray detector, you would see many of these same familiar objects....
TOPICS:

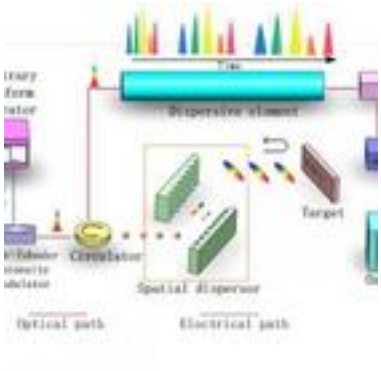
- Military & Aerospace

## Wyss Institute's technology translation engine

# launches 'Organs-on-Chips' company

July 28, 2014 2:07 pm | by EurekAlert! | Comments

The Wyss Institute for Biologically Inspired Engineering at Harvard University today announced that its human 'Organs-on-Chips' technology will be commercialized by a newly formed private company to accelerate development of pharmaceutical, chemical, cosmetic, and personalized medicine products....




# Serial time-encoded amplified microscopy for ultrafast imaging based on multi-wavelength laser

July 28, 2014 2:03 pm | by EurekAlert! | Comments

Ultrafast real-time optical imaging is an effective and important tool for studying dynamical events, such as shock waves, neural activity, laser surgery and chemical dynamics in living cells. Limited by the frame rate, conventional imaging system such as charge-coupled device (CCD) ...

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# Refrigerator magnets

July 28, 2014 2:00 pm | by EurekAlert! | Comments

The magnets cluttering the face of your refrigerator may one day be used as cooling agents, according to a new theory formulated by MIT researchers. The theory describes the motion of magnons — quasi-particles in magnets that are collective rotations of magnetic moments, or "spins"....

## How sweet it is

July 28, 2014 1:54 pm | by EurekAlert! | Comments

A powerful new tool that can help advance the genetic engineering of "fuel" crops for clean, green and renewable bioenergy, has been developed by researchers with the U.S. Department of Energy (DOE)'s Joint BioEnergy Institute (JBEI), a multi-institutional partnership led by Lawrence Berkeley National Laboratory (Berkeley Lab)....

## Booming mobile health app market needs more FDA oversight for consumer safety, confidence

July 28, 2014 1:39 pm | by EurekAlert! | Comments

Smart phones and mobile devices are on the cusp of revolutionizing health care, armed with mobile health ("mHealth") apps capable of providing everything from cardiac measurements to sonograms. While tremendous potential exists to broaden access to medical treatment and control costs ...

TOPICS:

- Medical

## Gadget Watch: PadFone novel as phone-tablet hybrid

July 28, 2014 1:15 pm | by Anick Jesdanun - AP Technology Writer - Associated Press | Comments

Companies often blend old products to give you something new. This summer, AsusTek Computer Inc. claims you don't need both a phone and a tablet — as long as you get its new PadFone X. The PadFone works like any other phone and has a screen that measures 5 inches diagonally. When you want a...

## Dinosaurs fell victim to perfect storm of events, study shows

July 28, 2014 12:27 pm | by EurekAlert! | Comments

Dinosaurs might have survived the asteroid strike that wiped them out if it had taken place slightly earlier or later in history, scientists say. A fresh study using up-to-date fossil records and improved analytical tools has helped palaeontologists to build a new narrative of the prehistoric creatures' demise, some 66 million years ago....

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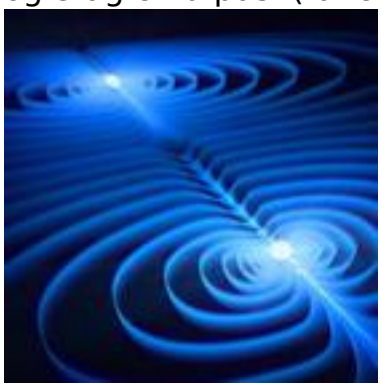

## Measuring the smallest magnets

July 28, 2014 12:21 pm | by EurekAlert! | Comments

Imagine trying to measure a tennis ball that bounces wildly, every time to a distance a million times its own size. The bouncing obviously creates enormous "background noise" that interferes with the measurement. But if you attach the ball directly to a measuring device, so they bounce together, you can eliminate the noise problem....

## The source of the sky's X-ray glow

July 28, 2014 12:16 pm | by EurekAlert! | Comments

In findings that help astrophysicists understand our corner of the galaxy, an international research team has shown that the soft X-ray glow blanketing the sky comes from both inside and outside the solar system. The source of this "diffuse X-ray background" has been debated for the past 50 years....

## Pages

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- ...
- next ›
- last »

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