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 ...

TOPICS:

- 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...

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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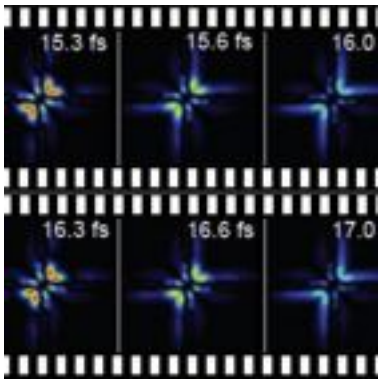
Big data may be fashion industry's next must-have accessory

December 18, 2014 1:25 pm | by EurekAlert! | Comments

Big data may be the next new thing to hit the fashion industry's runways, according to a team of researchers. By analyzing relevant words and phrases from fashion reviews, researchers were able to identify a network of influence among major

designers and track how ...



Choreography of an electron pair

December 18, 2014 1:23 pm | by EurekAlert! | Comments

Physicists are continuously advancing the control they can exert over matter. A German-Spanish team working with researchers from the Max Planck Institute for Nuclear Physics in Heidelberg has now become the first to image the motion of the ...

New technique moves researchers closer to new range of biosensors

December 18, 2014 1:20 pm | by EurekAlert! | Comments

Researchers from North Carolina State University have found a way of binding peptides to the surface of gallium nitride (GaN) in a way that keeps the peptides stable even when exposed to water and radiation. The discovery moves researchers one step ...

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How the physics of champagne bubbles may help address the world's future energy needs

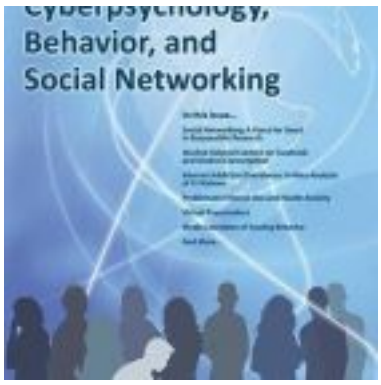
December 18, 2014 1:06 pm | by EurekAlert! | Comments

Uncork a bottle of champagne, and as the pressure of the liquid is abruptly removed, bubbles immediately form and then rapidly begin the process of "coarsening," in which larger bubbles grow at the expense of smaller ones. This fundamental nonequilibrium ...

Comics plus engineering equals a national award

December 18, 2014 1:01 pm | by EurekAlert! | Comments

A University of California, Riverside assistant professor who is an expert on the science of superheroes will receive an award from a national engineering organization that was previously won by military leaders, a congressman, a Secretary of Defense and astronauts, including ...



Internet addiction affects 6 percent of people worldwide

December 18, 2014 12:57 pm | by EurekAlert! | Comments

Internet addiction is an impulse-control problem marked by an inability to inhibit Internet use, which can adversely affect a person's life, including their health and interpersonal relationships. The prevalence of Internet addiction varies among regions around ...

Drones might help show how tornados form

December 18, 2014 10:48 am | by DAN ELLIOTT, Associated Press | Comments

Researchers say they have collected promising weather data by flying instrument-laden drones into big Western and Midwestern storms. Now, they want to expand the project in hopes of learning more about how tornadoes form. Drones can penetrate parts of ...

Stolen emails reveal lapses in Sony security practices

December 18, 2014 10:41 am | by TED BRIDIS, Associated Press | Comments

In the weeks before hackers broke into Sony Pictures Entertainment, the studio suffered significant technology outages it blamed on software flaws and incompetent technical staffers who weren't paying attention, even as hackers targeted executives to ...

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Gift Guide: Home products come with connectivity

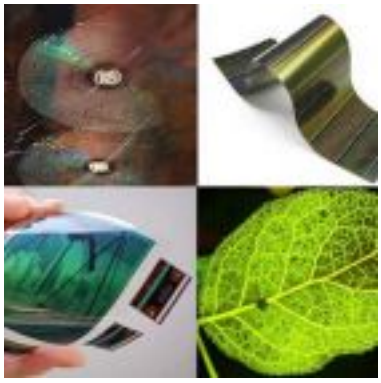
December 18, 2014 10:37 am | by ANICK JESDANUN, AP Technology Writer | Comments

Do you really need an app to tell you to brush and floss? It seems every household appliance is getting some smarts these days, meaning some connection to a phone app and the broader Internet. But then what? To give you a feel for what that connectivity ...

A look at North Korea's cyberwar capabilities

December 18, 2014 10:32 am | by YOUKYUNG LEE, AP Technology Writer | Comments

Most North Koreans have never seen the Internet. But the country Washington suspects is behind a devastating hack on Sony Pictures Entertainment has managed to orchestrate a string of crippling cyber infiltrations of South Korean computer systems....



Spider's web weaves way to advanced networks and displays

December 17, 2014 5:47 pm | by EurekAlert! | Comments

The next generation of light-manipulating networks may take their lead from designs inspired by spiders and leaves, according to a new report from two Boston College physicists and colleagues at South China Normal University. Structures as commonplace as ...

Pointing a new way toward spintronics

December 17, 2014 5:41 pm | by EurekAlert! | Comments

In a development that holds promise for future magnetic memory and logic devices, researchers with the U.S. Department of Energy (DOE)'s Lawrence Berkeley National Laboratory (Berkeley Lab) and Cornell University successfully used an electric field to ...

Getting robot emergency responders into shape

December 17, 2014 5:30 pm | by EurekAlert! | Comments

Sandia National Laboratories is tackling one of the biggest barriers to the use of robots in emergency response: energy efficiency. Through a project supported by the Defense Advanced Research Projects Agency (DARPA), Sandia is developing technology that will ...

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Breakthrough capability keeps subs, ships on safe track

December 17, 2014 1:29 pm | by EurekAlert! | Comments

Interactive software that can dramatically cut the time it takes to plan safe submarine missions is crossing over to the surface fleet and is being installed this month on the guided-missile cruiser USS Mobile Bay (CG 53). Sponsored by the Office of Naval Research (ONR), the ...

First steps for Hector the robot stick insect

December 17, 2014 1:26 pm | by EurekAlert! | Comments

A research team at Bielefeld University has succeeded in teaching the only robot of its kind in the world how to walk. Its first steps have been recorded in a video. You can watch them in Bielefeld University's latest posting on 'research_tv'. The robot is called ...

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