The Lead

Entries open for ECN IMPACT Awards, celebrating excellence in electronics design

August 12, 2014 | Comments

Companies from across the global electronics design landscape are invited to submit their stand-out products and services — in 24 categories — for consideration by a panel of judges for the 2015 ECN IMPACT Awards. The entry period opens today at www.ecnawards.com and ends January 19, 2015....

TOPICS:

- IMPACT Awards
- EDS

Obama takes step to improve government technology

August 12, 2014 3:52 pm | by JULIE PACE and STACY A. ANDERSON, Associated Press | Comments

The White House on Monday announced the creation of a team of digital experts...

Photos of the Day: A self-folding origami robot

August 12, 2014 12:09 pm | by ECN Staff | Comments

This tiny robot from Harvard microrobotics engineers Sam Felton and Robert Wood is a self-...

Photos of the Day: Supermileage car gets 383 MPG

August 5, 2014 12:15 pm | by Freudenberg-NOK Sealing Technologies | Comments

Freudenberg-NOK Sealing Technologies hosted two Concordia University students, along with their...

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Organic photovoltaic cells of the future

August 19, 2014 3:13 pm | by EurekAlert! | Comments

Organic photovoltaic cells -- a type of solar cell that uses polymeric materials to capture sunlight -- show tremendous promise as energy conversion devices, thanks to key attributes such as flexibility and low-cost production. But one giant hurdle holding back organic photovoltaic technologies ...

Electrical engineers take major step toward photonic circuits

August 19, 2014 3:07 pm | by EurekAlert! | Comments

The invention of fibre optics revolutionized the way we share information, allowing us to transmit data at volumes and speeds we'd only previously dreamed of. Now, electrical engineering researchers at the University of Alberta in Edmonton, Alberta, Canada are breaking another barrier....

UTSA researcher awarded $38K+ to evaluate energy efficiency options for historic homes

August 19, 2014 3:02 pm | by EurekAlert! | Comments

A team of UTSA researchers has been awarded a nearly $40,000 grant from the National Center for Preservation Technology and Training (NCPTT), an office of the National Park Service (NPS) and U.S. Department of the Interior. The grant will fund a one-year study of the energy efficiency....

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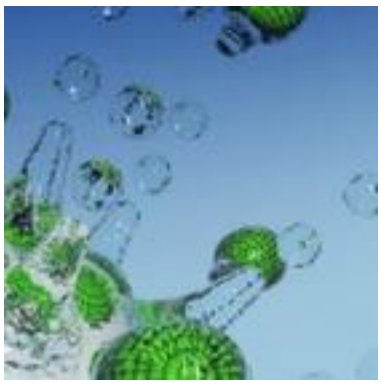
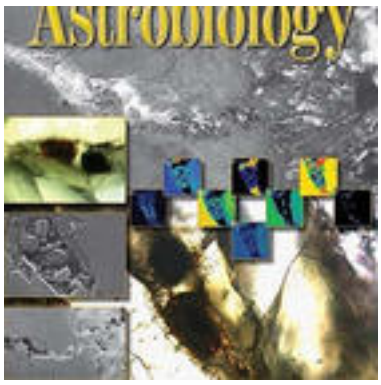


MIPT and RAS scientists made an important step towards creating medical nanorobots

August 19, 2014 2:58 pm | by EurekAlert! | Comments

Researchers from the Institute of General Physics of the Russian Academy of Sciences, the Institute of Bioorganic Chemistry of the Russian Academy of Sciences and MIPT have made an important step towards creating medical nanorobots. They discovered a way of enabling ...



Life on Mars? Implications of a newly discovered mineral-rich structure

August 19, 2014 2:53 pm | by EurekAlert! | Comments

A new ovoid structure discovered in the Nakhla Martian meteorite is made of nanocrystalline iron-rich clay, contains a variety of minerals, and shows evidence of undergoing a past shock event from impact, with resulting melting of the permafrost and mixing of surface and subsurface fluids....

No photos: Parents opt to keep babies off Facebook

August 19, 2014 2:49 pm | by BARBARA ORTUTAY, AP Technology Writer | Comments

Behold the cascade of baby photos, the flood of funny kid anecdotes and the steady stream of school milestones on Facebook. It all makes Sonia Rao, a stay-at-home mother of a 1-year-old in Mountain View, California, "a little uncomfortable"....

Isola's RF-Substrate Conversion Program gains momentum in partnership with InnoSenT and KSG

August 19, 2014 1:12 pm | Comments

Isola Group S.a r.l. announced a major qualification win in partnership with KSG Leiterplatten GmbH and InnoSenT GmbH. The joint conversion project among the three companies successfully tailored the dielectric properties of Isola's high-performance I-Tera(R) MT laminate material ...

Infographic: The rise of the Internet of Things

August 19, 2014 10:27 am | by Jabil, Inc. | Comments

The past 25 years of Internet growth was fueled by human communications. The

next 25 years of Internet growth will be fueled by machines. Welcome to the Internet of Things, one of the next big developments in our connected world and arguably what could define technology for the foreseeable future....
TOPICS:

- Internet of Things
- Infographics

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Sequencing at sea

August 19, 2014 8:55 am | by EurekAlert! | Comments
Daylight was breaking over the central Pacific and coffee brewing aboard the MY Hanse Explorer. Between sips, about a dozen scientists strategized for the day ahead. Some would don wetsuits and slip below the surface to collect water samples....

Graphene rubber bands could stretch limits of current healthcare, new research finds

August 19, 2014 8:52 am | by EurekAlert! | Comments
Although body motion sensors already exist in different forms, they have not been widely used due to their complexity and cost of production. Now researchers from the University of Surrey and Trinity College Dublin have for the first time treated common elastic bands with graphene....
TOPICS:

- Medical

Emerging solar plants scorch birds in mid-air

August 19, 2014 8:51 am | by ELLEN KNICKMEYER and JOHN LOCHER, Associated Press | Comments

Workers at a state-of-the-art solar plant in the Mojave Desert have a name for birds that fly through the plant's concentrated sun rays - "streamers," for the smoke plume that comes from birds that ignite in midair. Federal wildlife investigators who visited the BrightSource Energy plant ...

A Closer Look: Do more with companion devices

August 19, 2014 8:48 am | by ANICK JESDANUN, AP Technology Writer | Comments

Apple has ways of encouraging you to buy more of its products: It offers bonus features on devices like the iPhone and iPad that work only when paired with other Apple gadgets. Amazon does it, too. It's understandable. The devices need to communicate with each other....

US won't reveal records on health website security

August 19, 2014 8:45 am | by JACK GILLUM, Associated Press | Comments
After promising not to withhold government information over "speculative or abstract fears," the Obama administration has concluded it will not publicly disclose federal records that could shed light on the security of the government's health care website because doing so could "potentially" allow hackers to break in....
TOPICS:

- Medical

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Sandia report draws lessons learned from ‘perfect heists’ for national security

August 19, 2014 8:20 am | by Sandia National Laboratories | Comments
LIVERMORE, Calif. — In 2003, the unthinkable happened at Belgium’s Antwerp Diamond Center. Thieves broke into its reputedly impenetrable vault and made off with hundreds of millions of dollars’ worth of diamonds, gold, cash and other valuables. Through years of meticulous planning, they got past...

Bacterial nanowires are really wires, not hairs

August 18, 2014 8:17 pm | by Pacific Northwest National Laboratory | Comments
Some bacteria shoot out tendrils that conduct electricity. Now, researchers have determined the structure of one variety of bacterial nanowire, and found the wires are distinct from common bacterial hairs that they closely resemble. The results will

help scientists understand how bacteria build ...

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