## The Lead

# Photos of the Day: Jet engine powers world's fastest ship

March 25, 2015 | by GE Reports | Comments

When the first C-5 transport plane took off in 1968, it became the world’s largest aircraft, capable of lifting 130 tons of cargo. As tall as a six-story building and 80 yards long, the U.S. Air Force called it “a beautiful, useful giant.”

TOPICS:

- Military & Aerospace
- Photos of the Day

## Photos of the Day: The Satellite 2015 expo

March 18, 2015 9:33 am | by Jason Lomberg, Digital Editor, @JasonECNMag | Comments

SATELLITE 2015 had "communications solutions for every end-user of satellite communications and...

Photos of the Day: Railguns, robots, and shark drones at the Naval Future Force Expo

February 6, 2015 11:32 am | by Jason Lomberg, Digital Editor, @JasonECNMag | Comments

ECN's Digital Editor, Jason Lomberg, paid a visit to the Naval Future Force Science &...

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...

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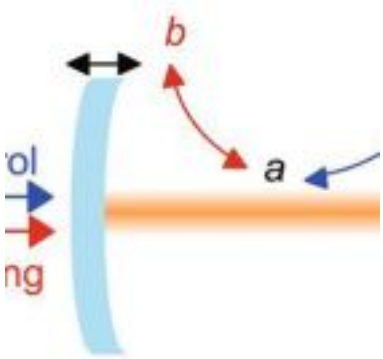
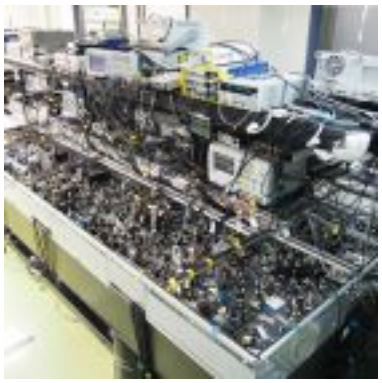
The ECN Daily




Cooling massive objects to the quantum ground state

April 1, 2015 5:26 pm | by Science China Press | Comments

Cooling of macroscopic and mesoscopic objects to the quantum ground states are of great interests not only for fundamental study of quantum theory but also for the broad applications in quantum information processing and high-precision metrology. However, the cooling limit ...



## Quantum teleportation on a chip

April 1, 2015 4:25 pm | by University of Bristol | Comments

The core circuits of quantum teleportation, which generate and detect quantum entanglement, have been successfully integrated into a photonic chip by an international team of scientists from the universities of Bristol, Tokyo, Southampton and NTT Device Technology Laboratories.

## Where no smartphone has gone before

April 1, 2015 4:14 pm | by American Friends of Tel Aviv University | Comments

For the crew of the Starship Enterprise, Star Trek's "Tricorder" was an essential tool, a multifunctional hand-held device used to sense, compute, and record data in a threatening and unpredictable universe. It simplified a number of Starfleet tasks, scientific ...

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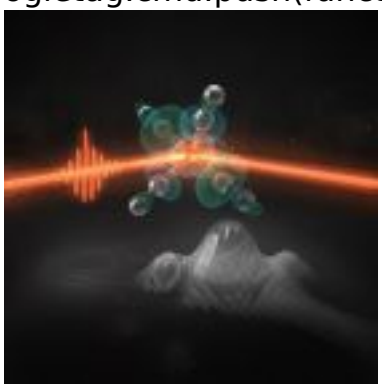


## Femto-snapshots of reaction kinetics

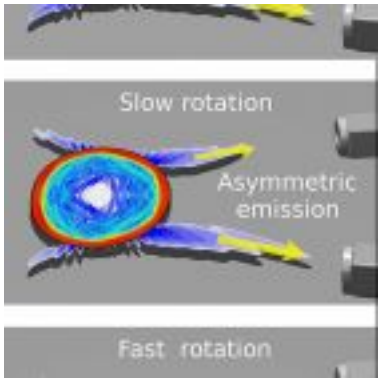
April 1, 2015 3:36 pm | by Helmholtz-Zentrum Berlin für Materialien und Energie | Comments

Using quantum chemical calculations, they were successful in interpreting the data and obtaining a detailed picture of the intermediates and reaction kinetics. The work, which has now been published in Nature, could prove helpful in developing ...

## Springing ahead of nature: Device increases walking efficiency

April 1, 2015 2:10 pm | by North Carolina State University | Comments

It's taken millions of years for humans to perfect the art of walking. But research results published today in the journal *Nature* show that humans can get better 'gas mileage' using an unpowered exoskeleton to modify the structure of their ankles. The device puts an extra spring ...




## Light-powered gyroscope is world's smallest

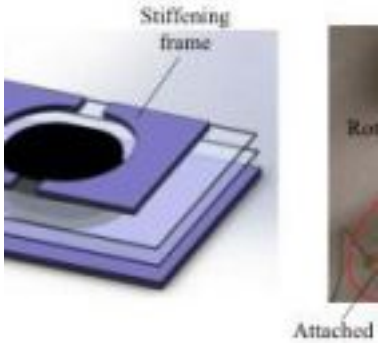
April 1, 2015 2:05 pm | by The Optical Society | Comments

A pair of light waves - one zipping clockwise the other counterclockwise around a

microscopic track - may hold the key to creating the world's smallest gyroscope: one a fraction of the width of a human hair. By bringing this essential technology down to an entirely new scale, a team ...

## 3D print technology provides 'robohand' to 7-year-old girl

April 1, 2015 2:02 pm | by JOHN ROGERS, Associated Press | Comments
Seven-year-old Faith Lennox never thought much about putting a prosthetic limb where her missing left hand had once been. Not until the little girl learned she could design her own, strap it on easily and then jump on her bike and pedal away at speeds previously only imagined.




## Soft, energy-efficient robotic wings

March 31, 2015 2:58 pm | by American Institute of Physics | Comments
Dielectric elastomers are novel materials for making actuators or motors with soft and lightweight properties that can undergo large active deformations with high-energy conversion efficiencies. This has made dielectric elastomers popular for creating devices such ...

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## Electrical engineer to build more efficient integrated circuits for better hearing aids

March 31, 2015 2:54 pm | by University of Texas at Arlington | Comments

A University of Texas at Arlington electrical engineering researcher is developing a more efficient, low-power integrated circuit for directional hearing aids that will lead to a better quality of life for hearing impaired people. Sungyong Jung, an associate professor ...

## US to pledge up to 28 percent emission cut in global treaty

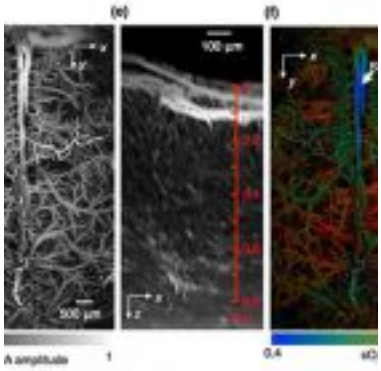
March 31, 2015 2:51 pm | by JOSH LEDERMAN, Associated Press | Comments

The United States pledged Tuesday to cut its greenhouse gas emissions up to 28 percent as its contribution to a global treaty aimed at preventing the worst effects of climate change. The Obama administration's contribution to the treaty, which world leaders expect to ...

## Microsoft makes cheaper version of Surface Pro 3 tablet

March 31, 2015 2:47 pm | by MICHAEL LIEDTKE and ANICK JESDANUN, AP Technology Writers | Comments

Google is releasing its cheapest Chromebook laptops yet, two versions priced at $149 aimed at undercutting Microsoft's Windows franchise and gaining ground in even more classrooms. Various PC manufacturers have been working with Google to design lightweight ...



## High-tech method allows rapid imaging of functions in living brain

March 30, 2015 5:05 pm | by Washington University in St. Louis | Comments

Researchers studying cancer and other invasive diseases rely on high-resolution imaging to see tumors and other activity deep within the body's tissues. Using a new high-speed, high-resolution imaging method, Lihong Wang, PhD, and his team at ...

## Roll up your screen and stow it away?

March 30, 2015 5:02 pm | by American Friends of Tel Aviv University | Comments

From smartphones and tablets to computer monitors and interactive TV screens, electronic displays are everywhere. As the demand for instant, constant communication grows, so too does the urgency for more convenient portable devices ...

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## Stop blaming the moon, says UCLA scientist

March 30, 2015 5:00 pm | by University of California - Los Angeles | Comments

"It must be a full moon" is a common refrain when things appear more hectic than usual. The moon is even blamed when things get crazy at hospital emergency rooms or birth wards. "Some nurses ascribe the apparent chaos to the moon, but dozens ...

## Carnegie Mellon researchers create 'Wikipedia' for neurons

March 30, 2015 4:56 pm | by Carnegie Mellon University | Comments

The decades worth of data that has been collected about the billions of neurons in the brain is astounding. To help scientists make sense of this "brain big data," researchers at Carnegie Mellon University have used data mining to create http://www.neuroelectro.org....

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