

01 CERN openlab: Developing cutting-edge ICT systems

published on Feb 04, 2015 in [physics, astronomy & astrophysics](#) ; [research](#) ;

Andrew Purcell CERN openlab is a unique public-private partnership between CERN and leading ICT companies. Founded in 2001 to develop the innovative ICT systems needed to cope with the unprecedented computing challenges of the Large Hadron Collider, CERN openlab unites science and industry at the cutting edge of research and innovation. CERN openlab recently entered its fifth phase, which will run until the end of 2017. Now, for the first time in its history, it has extended beyond the CERN community to include other major European and international research laboratories.

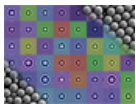
Read more: "Developing cutting-edge ICT systems through public-private partnership" - International Science Grid This Week .

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02 NYU's microscopic monitoring may yield advances in production of products, pharmaceuticals

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A team of New York University (NYU) physicists has developed a method to monitor the properties of microscopic particles as they grow within a chemical reaction vessel, creating new opportunities to improve the quality and consistency of a wide range [...]

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03 Iceland rises as its glaciers melt from climate change

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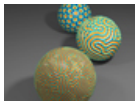


The Earth's crust under Iceland is rebounding as global warming melts the island's great ice caps. In south-central Iceland some sites are moving upward as much as 1.4 inches (35 mm) per year. The forthcoming paper is the first [...]

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04 Wrinkle predictions

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A new mathematical theory may explain patterns in fingerprints, raisins, and microlenses. Full story at <http://newsoffice.mit.edu/2015/predicting-wrinkles-fingerprints-curved-surfaces-0202> Source Massachusetts Institute of Technology This is an NSF News From the Field item.

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05 Calling IBM'ers Who Have Been Chrome'ed, RA'ed, or PIP'ed: Tell Us Your Story

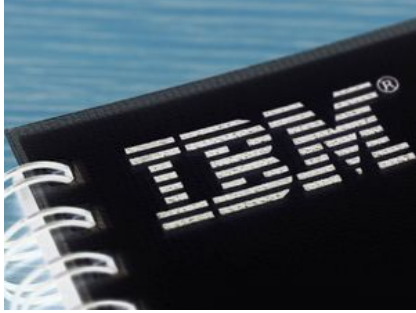
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06 Rosetta swoops in for a close encounter

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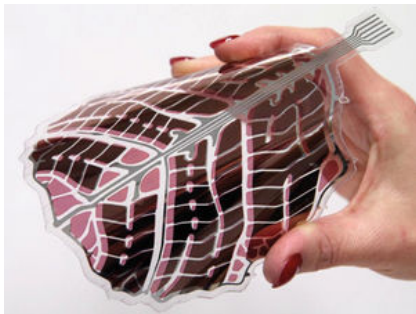


ESA's Rosetta probe is preparing to make a close encounter with its comet on 14 February, passing just 6 km from the surface.

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07 Making Solar "Wallpaper" Cheaper, More Efficient

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Organic solar panels show promise for decorative indoor use, while inorganic ones offer potential for cheap, high performance production

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High-speed Visualization of Polarization Charges using a Nanoscale Probe February 4, 2015 A new scanning probe microscopy technique, charge gradient microscopy, is being used to study the complex dynamics of polar domain nucleation and growth.

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09 EPA Finalizes Updates to Air Standards for Future Wood Heaters/Phased-in updates will ensure a smooth transition to cleaner and more efficient wood heaters

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WASHINGTON – The U.S. Environmental Protection Agency (EPA) is finalizing standards to limit the amount of pollution that wood heaters, which will be manufactured and sold in the future, can emit. These standards, which were last updated in 1988, reflect [...]

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10 STATS | Net Oil Imports to the United States have Fallen by More than Half Since 2005

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In the United States, the surge in shale gas production has made it the largest natural gas producer in the world.

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11 Boeing Receives Contract to Modernize B-52 with Digital Communications

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CONECT will be installed in 10 more bombers; upgrade improves situational awareness and mission effectiveness

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12 Boeing Partners to Develop New Criminal History System for Minnesota Criminal Justice Agencies

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Will facilitate data management for the Department of Public Safety Bureau of Criminal Apprehension

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13 North American plate shattered speed records--a billion years ago

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A new study led by Michigan Technological University geophysicist Aleksey Smirnov reveals that 1.1 billion years ago, the North American tectonic plate scooted along at a blistering 24.6 centimeters--about 10 inches--per year. Full story at

<http://www.mtu.edu/news/stories/2015/january/north-american-plate-shattered-speed-records-billion-years-ago.html> Source Michigan Technological [...]

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14 Amgen Announces Positive Top-Line Results From Phase 3 Study Evaluating The Efficacy And Safety Of Biosimilar Candidate ABP 501 Compared With Adalimumab In Patients With Moderate-To-Severe Rheumatoid Arthritis

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Primary Efficacy Analysis Demonstrates Clinical Equivalence Second Positive Phase 3 Study for Amgen's ABP 501 THOUSAND OAKS, Calif., Feb. 3, 2015 /PRNewswire/ -- Amgen (NASDAQ: AMGN) today announced a Phase 3 study evaluating the efficacy and safety of biosimilar candidate [...]

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15 'State of NASA' Address at Kennedy Space Center

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In the Neil Armstrong Operations and Checkout Building high bay at NASA's Kennedy

Space Center in Florida, NASA Administrator Charles Bolden delivers a “state of the agency” address on Feb. 2, 2015 at NASA’s televised fiscal year 2016 budget rollout [...]

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16 IXV: 100 minutes of critical teamwork

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During its brief but crucial mission, experts on three continents and the high seas will work in close cooperation for ESA’s IXV spaceplane mission, monitoring its free flight in space, spectacular reentry and safe splashdown in the Pacific.

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17 Shedd Aquarium teams up with Argonne, others for first study of aquarium microbiology

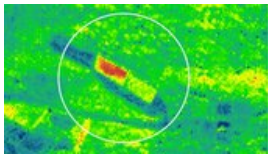
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Shedd Aquarium teams up with Argonne, others for first study of aquarium microbiology
February 3, 2015 Chicago’s John G. Shedd Aquarium announced the launch of the Aquarium Microbiome Project – the first-ever study exploring the microscopic living community in a [...]

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18 Plant power from above

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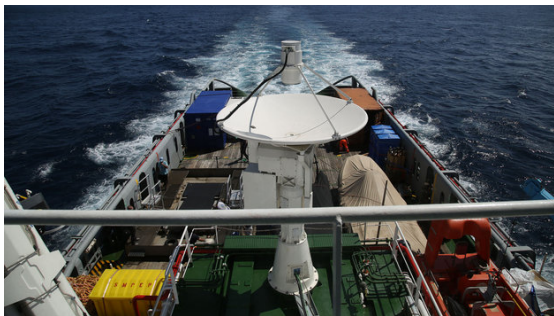


Field experiments have shown how ESA’s potential FLEX mission could identify vegetation that is suffering degrees of stress invisible to the naked eye.

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19 Spaceship to ship

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Human spaceflight and operations image of the week: A tracking station aboard Nos Aries will be the first to pick up IXV’s call home after reentry

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20 NASA's SMAP Satellite Successfully Launches With Northrop Grumman AstroMesh(R) Reflector

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CARPINTERIA, Calif. -- Feb. 3, 2015 -- On January 30th, NASA successfully launched the Soil Moisture Active Passive (SMAP) spacecraft from Vandenberg Air Force Base, on its mission to provide global measurements of soil moisture. A key feature of the [...]

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Vie for the Tech-Prediction Prize

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The SciCast prediction market is offering more than \$30,000 in prizes for top forecasters

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