

The Lead



[End of Era: Ellison Steps Aside as Oracle CEO](#)

September 19, 2014 | by MICHAEL LIEDTKE, AP Technology Writer | [Comments](#)

Oracle co-founder Larry Ellison is stepping aside as CEO after 37 years at the helm of the business software maker, ending a colorful reign marked by his flamboyant behavior and outlandish wealth amassed while building one of the world's best-known technology companies...

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[Apple Locks Itself Out of Devices with Passwords](#)

September 19, 2014 9:58 am | by MICHAEL LIEDTKE, AP Technology Writer | [Comments](#)

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Published on Wireless Design & Development (<http://www.wirelessdesignmag.com>)

Apple has tightened its technological security so not even the company can pry into a password-...

[Facebook CEO Wants More Students to Explore Tech](#)

September 19, 2014 9:43 am | by TERENCE CHEA, Associated Press | [Comments](#)

Facebook CEO Mark Zuckerberg wants to turn more American high school students into well-paid...

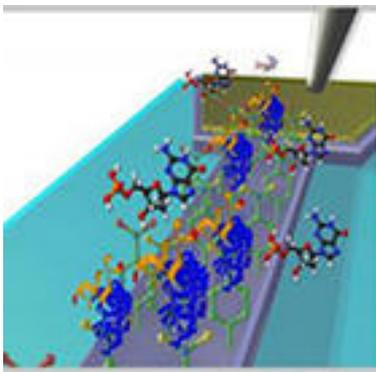
[Alibaba Poised to Surge on the NYSE](#)

September 19, 2014 9:22 am | by MAE ANDERSON, AP Technology Writer | [Comments](#)

Chinese e-commerce powerhouse Alibaba will say "open sesame" to the New York Stock Exchange on...

[View Sample](#)

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[Graphene Sensor Tracks Down Cancer Biomarker](#)

September 19, 2014 11:02 am | by Michael Bishop, Institute of Physics |

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[Comments](#)

An ultra-sensitive biosensor made from the wonder material graphene has been used to detect molecules that indicate an increased risk of developing cancer...

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[Quick-Change Materials Break the Silicon Speed Limit for Computers](#)

September 19, 2014 10:59 am | by University of Cambridge | [Comments](#)

The present size and speed limitations of computer processors and memory could be overcome by replacing silicon with 'phase-change materials' (PCMs), which are capable of reversibly switching between two structural phases with different electrical states - one crystalline and conducting and the other glassy and insulating - in billionths of a second...

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[Photo of the Day: Breaking the Silicon Speed Limit for Computers](#)

September 19, 2014 10:57 am | by University of Cambridge | [Comments](#)
Modelling and tests of PCM-based devices have shown that logic-processing operations can be performed in non-volatile memory cells using particular combinations of ultra-short voltage pulses, which is not possible with silicon-based devices...

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[Photos of the Day: NASA's Next Mars-Bound Spacecraft](#)

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September 18, 2014 10:06 am | by MARCIA DUNN, AP Aerospace Writer |

[Comments](#)

Scientists want to learn how Mars went from a warm, wet world that may have harbored microbial life during its first billion years, to the cold, barren place of today. Maven should help explain the atmospheric changes that led to this radical climate change...

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[Senate: China Hacked Military Contractor Networks](#)

September 18, 2014 10:06 am | by JACK GILLUM, Associated Press |

[Comments](#)

China's military hacked into computer networks of civilian transportation companies hired by the Pentagon at least nine times, breaking into computers aboard a commercial ship, targeting logistics companies and uploading malicious software onto an airline's computers, Senate investigators said Wednesday...

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[NASA's Maven Spacecraft Reaches Mars this Weekend](#)

September 18, 2014 10:05 am | by MARCIA DUNN, AP Aerospace Writer | [Comments](#)

This weekend, NASA's Maven spacecraft will reach the red planet following a 10-month journey spanning 442 million miles. If all goes well, the robotic explorer will hit the brakes and slip into Martian orbit Sunday night...

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[Border Patrol to Test Body Cameras](#)

September 18, 2014 9:22 am | by ELLIOT SPAGAT, Associated Press | [Comments](#)

The U.S. Border Patrol purchased body cameras and will begin testing them this

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Published on Wireless Design & Development (<http://www.wirelessdesignmag.com>)

year at its training academy, two people briefed on the move said Wednesday, as new leadership moves to blunt criticism about agents' use of force...

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[Alibaba Symbol of China's New Tech Giants](#)

September 18, 2014 9:22 am | by JOE McDONALD, AP Business Writer | [Comments](#)

Alibaba Group's U.S. stock offering is a wakeup call about an emerging wave of technology giants in China's state-dominated economy...

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[Review: Devices, Apps Act Like One Under iOS 8](#)

September 18, 2014 9:21 am | by ANICK JESDANUN, AP Technology Writer | [Comments](#)

The scores of new features in Apple's software update for mobile devices can be boiled down to one word: unity. Many iPhone owners also have iPads and Mac computers, and family members are likely to have Apple devices, too...

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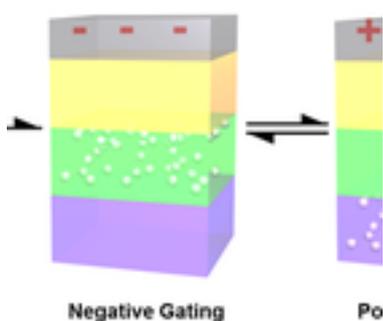
[Water-Based Nuclear Battery Can Be Used to Generate Electrical Energy](#)

September 17, 2014 10:49 am | by University of Missouri new Bureau | [Comments](#)

Researchers at the University of Missouri have created a long-lasting and more efficient nuclear battery that could be used for many applications such as a reliable energy source in automobiles and also in complicated applications such as space flight...

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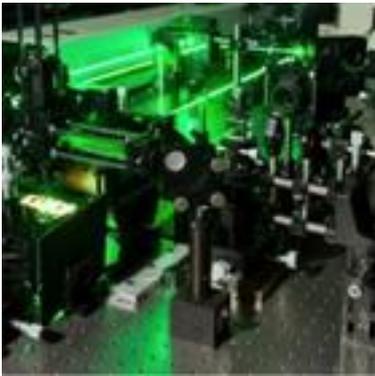
[For Electronics Beyond Silicon, a New Contender Emerges](#)

September 17, 2014 10:40 am | by Harvard School of Engineering and Applied Sciences | [Comments](#)

Silicon has few serious competitors as the material of choice in the electronics industry. Yet transistors, the switchable valves that control the flow of electrons in a circuit, cannot simply keep shrinking to meet the needs of powerful, compact devices...

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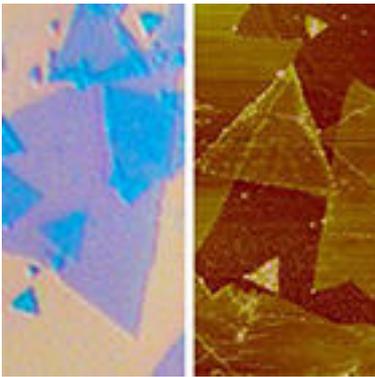
[Making Quantum Dots Glow Brighter](#)

September 17, 2014 10:13 am | by American Institute of Physics | [Comments](#)

Researchers from the University of Alabama in Huntsville and the University of Oklahoma have found a new way to control the properties of quantum dots, those tiny chunks of semiconductor material that glow different colors depending on their size...

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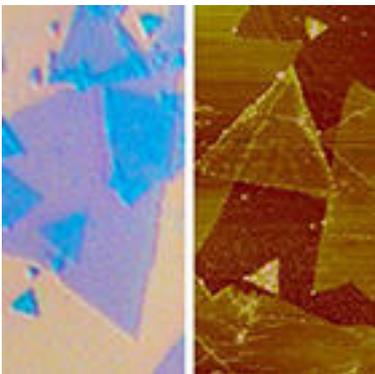
[Photos of the Day: A Promising Light Source for Optoelectronic Chips](#)

September 17, 2014 9:51 am | by Larry Hardesty, MIT News Office | [Comments](#)

Of the three chief components of optical circuits — light emitters, modulators, and detectors — emitters are the toughest to build. One promising light source for optical chips is molybdenum disulfide (MoS₂), which has excellent optical properties when deposited as a single, atom-thick layer...

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[Tuned to Different Frequencies](#)

September 17, 2014 9:51 am | by Larry Hardesty, MIT News Office |

News

Published on Wireless Design & Development (<http://www.wirelessdesignmag.com>)

[Comments](#)

In the next issue of the journal Nano Letters, researchers from MIT's departments of Physics and of Electrical Engineering and Computer Science will describe a new technique for building MoS₂ light emitters tuned to different frequencies, an essential requirement for optoelectronic chips...

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['Smart Material' Chin Strap Harvests Energy from Chewing](#)

September 17, 2014 9:46 am | by Institute of Physics | [Comments](#)

A chin strap that can harvest energy from jaw movements has been created by a group of researchers in Canada. It is hoped that the device can generate electricity from eating, chewing, and talking, and power a number of small-scale implantable or wearable electronic devices...

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