

Weekly Discovery

We SHARE to inspire and ignite ideas!

1 August 2016 – 5 August 2016

ADVANCED ENGINEERING

Floating underwater tunnels planned for Norway



Norway is planning to construct a [fully submerged floating traffic tunnel](#) measuring 3,000 feet wide and 4,000 feet deep beneath Sognefjord. Accomplishing this task is complex is a first in the world.

Source: [Livescience.com](#) (28 July 2016)

ARCHITECTURE

Wooden skyscrapers: a roundup of tall timber buildings



Wooden skyscrapers are currently being planned by architects in various major cities of the world, including London, Amsterdam and Stockholm. You can view the proposed end-products [here](#).

Source: [Designboom.com](#) (31 July 2016)

AVIATION

Solar plane completes historic round-the-world flight



A solar plane named [Solar Impulse 2](#) accomplished a historic feat by recently completing a flight around the world in just 23 days.

Source: [Livescience.com](#) (26 July 2016)

DATA STORAGE

A more efficient way to write data into non-volatile memory devices improves their performance



Source: [alliancekolkata.co.in](#)

Researchers from A*STAR have developed a new method to write data on to [non-volatile memory \(NVM\)](#) which is 96% more effective than current known methods.

More information on NVM from [IEEE Article](#)
Source: [Phys.Org](#) (27 July 2016)

DRONES

Researchers put a tiny computer on a drone to make it a hacking machine



A simple drone was transformed into a [hacking machine](#) by researchers. Danger Drone was designed for use in the testing of weaknesses in computer networks and then protecting them from future threats.

Source: [Popular Science](#) (29 July 2016)

GLOBALIZATION

The Hard Truths of Globalization



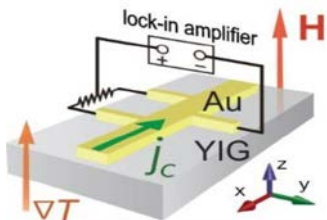
Source: [www.emaze.com](#)

In this [article](#), the editor gives a brief overview of the effects on the world regarding globalization, including how it influences businesses and economics.

Source: [Fortune](#) (1 August 2016)

MATERIALS

The hot attraction of gold



Researchers from [Tohoku University](#) recently discovered that gold is, in fact, a magnetic material. This new finding is expected to play a role in energy harvesting. Also read this [NATURE Article](#)

Source: [Sciencedaily](#) (27 July 2016)

ROBOTICS

Magnetic robot climbs on blimps to repair them

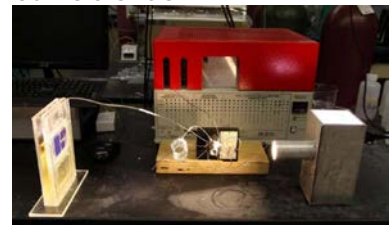


Scientists developed a robot repairman named [Spider](#) that can scan against airship surfaces to locate tiny pinholes and repair the damages. This has made revealing pinholes much easier and more efficient, saving time and manpower.

Source: [Popular Science](#) (28 July 2016)

SOLAR CELLS

Breakthrough solar cell captures carbon dioxide and sunlight, produces burnable fuel



Discover a [revolutionary solar cell](#) that can generate hydrocarbon fuel. Unlike conventional solar cells that convert sunlight into electricity, the new device converts atmospheric carbon dioxide into fuel. Also read this [SCIENCE Article](#)

Source: [Phys.org](#) (28 July 2016)

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