

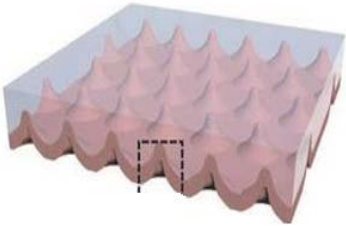
Weekly Discovery

We SHARE to inspire and ignite ideas!

25 July 2016 – 29 July 2016

ADHESIVE TECHNOLOGY

Octopus-Inspired Adhesive Pads Are Suckers For Transfer Printing



Korean scientists have designed [smart adhesive pads](#) that have similar suction as the octopus's tentacles. Designed for transfer printing and can be extended to other applications, such as for wearable sensors. Also Read this [Wiley Article](#)

Source: [Asian Scientist](#) (21 July 2016)

ARCHITECTURE

Inside the futuristic campuses tech's fastest growing companies are building

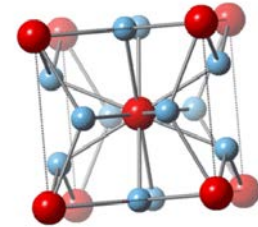


Presenting the [college campuses of the future!](#) All the college campuses are innovatively designed. Their features include domes with a collection of endangered plant species, a bicycle-friendly bridge and transparent walkways.

Source: [Tech Insider](#) (24 July 2016)

MATERIALS

Lab discovers titanium-gold alloy that is four times harder than most steels



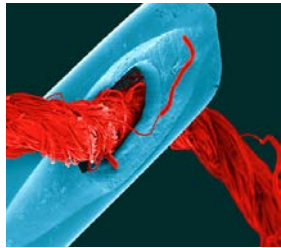
Physicists at Rice University recently discovered a [titanium-gold alloy](#) that is 4 times harder than most steels. Expected to be used in applications that require long-term strength and stability.

Also read this [SCIENCE publication](#).

Source: [Phys.org](#) (20 July 2016)

MEDICAL TECHNOLOGY

All sewn up



A new generation of [surgical sutures](#) that can be transformed into sensors! The sensors will then be used for applications that include monitoring wound healing and recording of cell chemical activity.

In addition read this [NATURE Article](#)

Source: [The Economist](#) (23 July 2016)

NEUROSCIENCE

The Mathematics Of Jet Lag



There is a [mathematical explanation](#) as to why we suffer from jetlag. It is due to the disruption of our circadian rhythms caused by changes in time zone. To know more about jet-lag, read this [AIP Article](#).

Source: [Forbes.com](#) (25 July 2016)

PHYSICS

The bicycle problem that nearly broke mathematics



Jim Papadopoulos had spent many years researching [bicycle motion](#) and stability. His fruit of labour may now take shape as possible re-design of the bicycle could lead to greater stability.

Source: [Nature](#) (20 July 2016)

PROTOTYPING

Fine-Tuned Prototyping

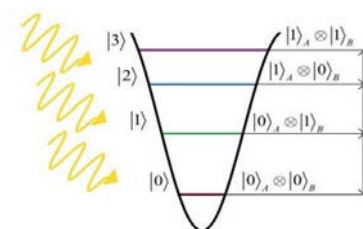


Outline of a process of prototyping. Illustrated with the many stages of [prototype designs of speakers](#) from product design company Bhold are described.

Source: [Entrepreneur](#) (August 2016)

QUANTUM COMPUTERS

Physicists discover a new approach for building quantum computers



[Russian researchers](#) have successfully used just one system with multiple states to overcome the difficulty of manufacturing quantum computers. This new approach seems more effective as it is easier to make a stable multi-level system.

Source: [Sciencedaily](#) (22 July 2016)

ROBOTICS

This robot will grow all the food you need in your backyard



Discover a robot that can [grow food](#). It can grow and produce enough for household needs in their backyard. In addition visit the [website](#).

Source: [Tech Insider](#) (21 July 2016)

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