

# Weekly Discovery

We SHARE to inspire and ignite ideas!

9 May 2016 – 13 May 2016

**DESIGN FOR DISABILITY**

**Sign Language to Speech With Wearable Tech Gloves**



Two students from the University of Washington designed a special pair of gloves that helps the wearer transform sign language into verbal words, to understand communication from the hearing impaired.

Source: [WTVOX.com](http://WTVOX.com) (April 2016)

**GREEN ENERGY**

**This water purifier generates electricity and creates Wi-Fi connections**

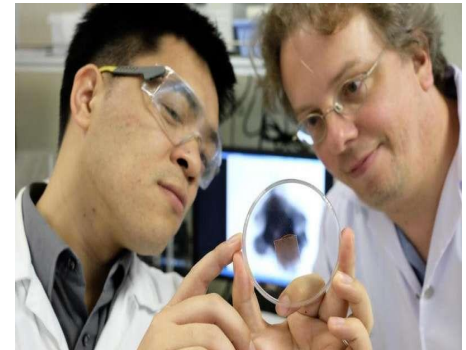


Watty is a remarkable water purifier. It is solar-powered and is capable of transforming contaminated water from a river, ocean or even sewage into drinking water. At the same time, it can generate sufficient electricity to power itself and it can connect everywhere within a kilometre radius to Wi-Fi.

Source: [Telegraph.co.uk](http://Telegraph.co.uk) (April 2016)

**MEDICAL TECHNOLOGY**

**Drug particles can be directed to a specific area using ultrasound**

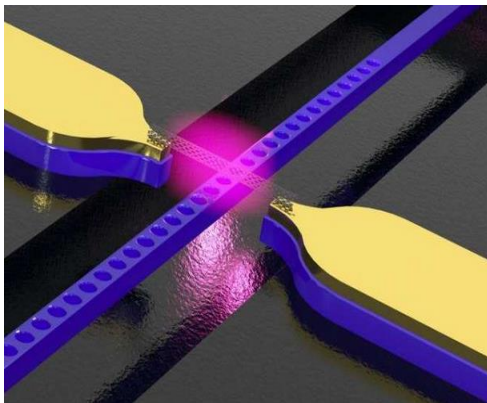


Scientists at NTU in Singapore have recently come up with a new way to deliver cancer drugs deep into tumour cells. Micro-sized gas bubbles were made by the scientists are guided by Magnets to a specific tumour. Ultrasound is used to vibrate the bubbles, to direct the drug particles into a targeted area. Find out more in this research [article](#) in SUTD library.

Source: [Phys.org](http://Phys.org) (April 2016)

**NANOTECHNOLOGY**

**Waveguide with integrated carbon nanotubes for conversion of electric signals into light**

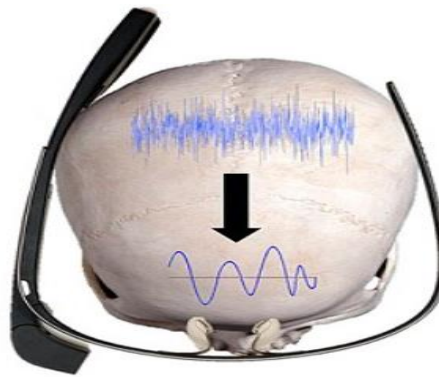


Researchers at Karlsruhe Institute of Technology have developed a switching element that converts electric signals into clearly defined optical signals to meet the growing needs of data transfer. Each carbon nanotube is just 1 micron in length with a diameter of just 1 nanometer. Find out more about this technology [here](#) in SUTD library.

Source: [Phys.org](http://Phys.org) (April 2016)

**SECURITY**

**Forget passwords, you could soon use your SKULL to login online: The 'sound' of someone's head can reveal their identity**



Scientists from a German university developed SkullConduct to address the limitation of lack of data protection inherent in Google Glass. Find out more about SkullConduct in the research article [here](#).

Source: [Dailymail](http://Dailymail) (April 2016)

**SMART HOME**

**Big-i robot butler learns from its masters**



A company called Nxrobo invented a robot known as Big-i. Big-i is intended to be used in a home automation system to control devices, as part of the smart home concept. You can access the company's [website](#) to find out more about Big-i.

Source: [Gizmag](http://Gizmag) (April 2016)

