

# Weekly Discovery

We SHARE to inspire and ignite ideas!

27 June 2016 – 1 July 2016

ARCHITECTURE

## Intelligent Daylighting System



Discover a system of louvres that adjust to maximise lighting and heat according to the desired outcome required within a space. This is an energy-saving solution to indoor lighting and ventilation.

Source: [Archdaily](#) (June 2016)

EDUCATION

## 2026 The Decade Ahead



This report discusses the future of higher education. Three main areas of change are identified, namely the next generation of students, tenure policies and curriculum of institutions of higher education. You can access the full text in eReaders numbered 15380, 15604, 15384, 15443 and 15601 in SUTD library.

Source: The Chronicle of Higher Education (June 2016)

INTERNET OF THINGS(IoT)

## Even Hearing Aids Are Connecting to the Internet of Things

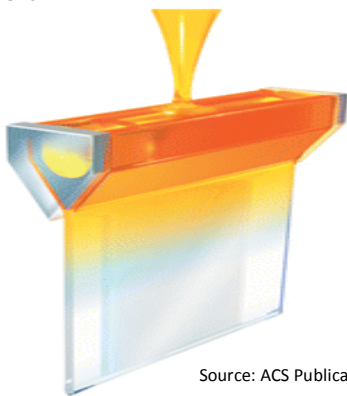


Introducing the first hearing aid that can connect to the Internet of Things, such as doorbells, smart lights, and smoke detectors! This is aimed at helping hearing impaired individuals receive important alarms.

Source: [Fortune](#) (23 June 2016)

MATERIALS

## Decoding the glass 'genome' contributes to new functional materials



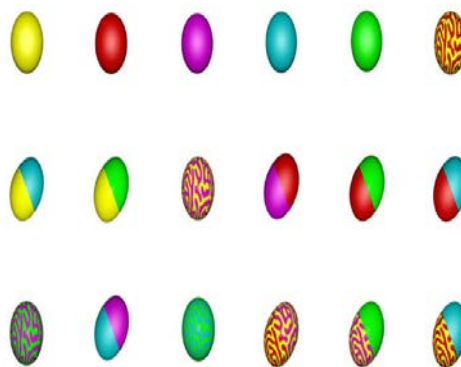
Source: ACS Publications

Researchers from Aalborg University have developed a new and efficient way to produce [unique glass types for various uses](#). These models will enable manufacturers to predict how different types of glass can potentially be used in real-life settings and rapidly optimizing them for industrial production. Also check out this [ACS paper](#) to learn more.

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

NANOTECHNOLOGY

## Chemists Build First Nanoparticle 'Library'



Scientists developed a [library of 31 nanoparticles](#), each contains 5 different metals. These systematic combinations are now being tested in a broad range of applications, including optics, electronics, and catalytic reactions. This could lead to a brand new era of nanotechnology. In addition check out this [SCIENCE paper](#).

Source: [Science](#) (23 June 2016)

QUANTUM COMPUTER

## Quantum Computer Makes First High-energy Physics Simulation

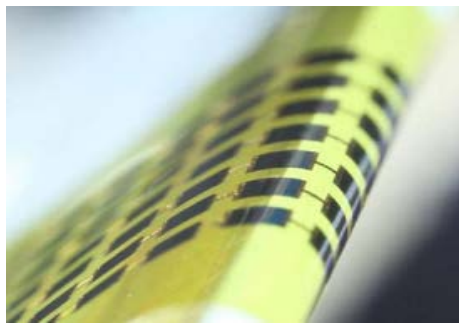


A quantum computer has recently performed its first simulation of a high-energy physics test on creation of particles and antiparticles. This first step marks the beginning of using quantum computers to understand what occurs during collision of two atomic nuclei at high speed. For further reading [NATURE paper](#).

Source: [Nature](#) (22 June 2016)

#### SOLAR CELLS

### This Ultra-Thin Solar Cell Is So Flexible It Can Wrap Around A Pencil



Flexible, extremely thin solar cells are now a reality. They were designed by South Korean scientists and are intended to be used in wearable electronic devices. Also check out this [AIP paper](#) for the details on how they were made.

Source: [Tech Times](#) (23 June 2016)

#### 3D PRINTING

### Researchers hope to go beyond wigs with 3-D printed hair



Researchers at MIT's Media Lab have recently developed a way to print hair-like structures using 3D printing technology. This will pave the way to design passive actuators and swipe sensors. In Addition read more about this technology in their [MIT's Media Lab report](#).

Source: [CNN.com](#) (22 June 2016)

#### 4D PRINTING

### Innovations in 4D printing



Check out this insight report by Frost & Sullivan on [4D printing](#)! It covers 4D printed works, the projected future of the 4D printing landscape and patents related to 4D printing.

Source: [Frost & Sullivan](#) (17 June 2016)

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