

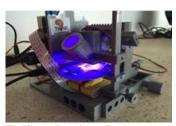
Weekly Discovery

We SHARE to inspire and ignite ideas!

31 July 2017 - 4 August 2017

3D PRINTING

Flypi Is a Low-Cost 3D-Printed Microscope and 'Neurogenetics Lab'



FlyPi, a 3D-printed microscope, serves as an affordable 'neurogenetics lab' that features a powerful camera, illumination and heating systems. Read more at PLOS.

Source: Digital Trends (1 August 2017)

ARCHITECTURE

5 Online Resources that Explore the Intersection Between Landscape, **Architecture and Culture**

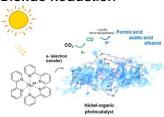


Learn more about how understanding landscape and culture are important elements when designing in architecture through these 5 online resources.

Source: Arch Daily (29 July 2017)

CO₂ CONVERSION

Artificial Photosynthesis Process Promises Highly Selective Carbon Dioxde Reduction



It is now possible to breakdown carbon dioxide exclusively into carbon monoxide, which can be developed into high-value multicarbon fuels through photocatalytic process. Read also at Science Advances.

Source: <u>IEEE Spectrum</u> (28 July 2017)

DIGITAL DISRUPTION

6 Digital Strategies, and Why Some Work Better than Others



This HBR article lists 6 digital strategies (half offensive half defensive) that companies can leverage on if they do want to embark on digital transformations.

Source: Harvard Business Review (31 July 2017)

DRONE

Russian Scientists Put a Defibrillator on



This drone could save your life. It is able to travel up to distances of 50km and reach your destination with medical supplies to treat your condition.

Source: Tech Crunch (27 July 2017)

EARABLE

3D-Printed "Earable" Sensor Monitors **Vital Signs**



A 3D-printed earable that tracks real-time core body temperature and functions as a hearing aid. More features such as heart rate and blood oxygen monitors will be added. Read also at ACS.

Source: <u>IEEE Spectrum</u> (27 July 2017)

ELECTRIC VEHICLE

Yara Birkeland Is an All-Electric, **Fully-Autonomous Cargo Vessel**



This fully autonomous cargo ship is currently undergoing testing and aims to be fully autonomous without human surveillance by 2020. It is also 100% emissions free, running on electric power generated from hydroelectricity.

Source: Cool Things (28 July 2017)

PRODUCT DESIGN

Carbotainer Transforms Gas Transportation



This Smart Carbon Cylinder weighs 3 times lighter than current models and comes with a RFID tag for automatic industrial processes, saving much transport and handling cost. In addition, read the patent on its design.

Source: Gas World (1 August 2017)

SENSOR

Controlling Devices with the Blink of



Scientists have developed a new electronic sensor which allows users to control devices and type texts using the motion of eyes. Also read more at Science Advances

Source: Asian Scientist (29 July 2017)

SOLAR CELLS

Transparent, Flexible Solar Cells



Imagine a future where your windows, walls and any surface are covered in solar cells! This may not be too far away with this recent development of transparent flexible solar cells made with graphene. Source: MIT News (28 July 2017)

TECHNOLOGY OUTLOOK

The Tech World Is Convinced 2021 Is Going to Be the Best Year Ever



Electric vehicles are forecasted to hit the roads full force in 2021. Also watch out for new virtual reality technologies, solar power that is cheaper than coal and more in the magical years ahead.

Source: MIT Technology Review (26 July 2017)

USER INTERFACE FOR IOT

6 Reasons Why Designing UX for IoT is So Difficult



The fervor about IOT is ever present but the area of User Experience (UX) has not been given much attention. Learn about 6 challenges when creating good UX and solutions to overcome these difficulties. Source: Machine Design (28 July 2017)

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