

Weekly Discovery

We SHARE to inspire and ignite ideas!

18 April 2016 –22 April 2016

ARCHITECTURE

Bjarke Ingels on Sculptural Skyscrapers and Refining Parameters in High Rise Design



In an [interview](#) with the Council on Tall Buildings and Urban Habitat (CTBUH), Bjarke Ingels discusses design of skyscrapers. He mentions that architects have the problem of "skilled incompetence". He also shared about some of his current projects in New York City and highlighted that there is always a need to refine the parameters by which skyscrapers are designed

Source: [Arch Daily](#) (April 2016)

ARTIFICIAL INTELLIGENCE

Machines Beating Mankind



This [article](#) presents a brief history of various events in which artificial intelligence (AI) and computer machines have mastered board games and defeated human opponents since the 1970s. It also mentions competitions involving checkers, chess, and South Korean backgammon grand master Lee Sedol.

Source: [Time](#) (March 2016)

BIOTECHNOLOGY

Machine Life

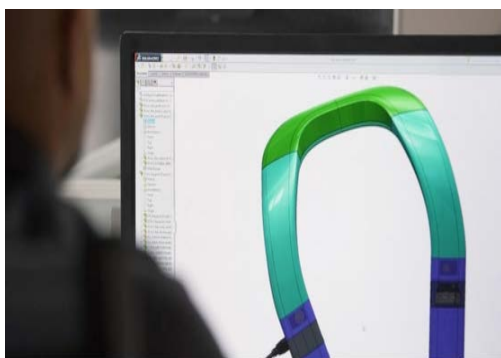


Bioengineers have created living cells that can count, add, store data in memory and perform basic logic operations. These biocomputers communicate via chemical signals. Currently it is hard to predict how biocomputers will perform before they are built, due to a lack of knowledge on the intricacies of cell working. Research laboratories and companies are testing applications, including ingestible cells that treat metabolic disorders.

Source: [Scientific American](#) (April 2016)

DESIGN FOR DISABILITY

Toyota Project BLAID news: New wearable device aids blind people



Car manufacturer Toyota has come up with a wearable device to aid visually impaired people in navigation. Called Project BLAID, the device is equipped with cameras to recognize objects around the user, and it will be worn around the user's shoulder. Vibration motors and speakers allow the device to communicate with the user, helping him in navigating his surroundings.

Source: [Vinereport.com](#) (March 2016)

PASSIVE COOLING

Divine insulation: passivhaus architecture



With rising average temperatures and improved lifestyles, the demand for cooling systems is projected to increase. The combination of a world that is warming up and a population that wants to cool down leads to a dilemma. That is, the question of designing buildings that can maintain a comfortable temperature without consuming large amounts of energy that contributes to further climate change.

Source: [Financial Times](#) (April 2016)

SYSTEMS DESIGN

Slash your energy bills



EnergyElephant is a company recently founded in Ireland. It aims to reduce energy bills of companies. The company's software analyzes utility bills, prior to making a plan to lower energy bills based on local regulations and costs. That could mean rearranging office or factory hours to take advantage of cheaper rates, renegotiating with a utility provider or resolving billing errors. The monthly cost of this service is €360, affordable for many companies.

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

