

# Weekly Update

## 1. Supercapacitor discovery could allow laptops to be charging in just 1 minute, engineer claims

*The valuable points of Kirchhoff's laws have captured the defining principle in the theory of electric current, stating that voltages must move in definite loops. The University of Colorado at Boulder has announced that its researchers have made a major breakthrough in understanding the behavior of charged ionic particles.*

**Source: Futurism**

<https://futurism.com/the-byte/supercapacitor-theory-discovery>

## 2. Is the “Methuselah star” really older than the Universe?

*Scientists have been grappling with an intriguing puzzle in cosmology for many years. This is because the age of a star called HD 140283, known as the Methuselah star, is apparently greater than the age of our universe. According to researchers, when the expansion rate of the universe is measured using nearby galaxies and supernovae (i.e. exploding stars), this rate is 10 percent higher than the rate measured using the cosmic background radiation (CMB).*

**Source: BIG THINK**

<https://bigthink.com/starts-with-a-bang/methuselah-star-older-than-universe/>

## 3. China's spacecraft lifts off from far side of the moon carrying rock samples

*This will be the second time China will collect samples from the moon. In addition, the surface of the moon in those areas is more uneven. With the difference that in the previous round, the "Chang'e 5" probe was able to do so in 2020 from the bright side of the moon, that is, the part facing the Earth.*

**Source: The National Desk**

<https://thenationaldesk.com/news/from-the-desk/chinas-spacecraft-lifts-off-from-far-side-of-the-moon-carrying-rock-samples-space-planet-lunar-research-inner-mongolia-region-impact-crater-united-states-rivalry>

## 4. The Next-Gen Smartphones Could Redefine Tech: Enter the IntelliPhone

*Artificial intelligence, a new chapter of intelligent life. The first cell phones released in the early 1980s were connected to a cellular radio system and did not require a physical connection to the network. Analysts at the American Securities Bank believe that artificial intelligence will start a new chapter of intelligent human life with new phones. They have named these new devices "smartphones" or "intelliphones."*

**Source: Smartphone Magazine**

<https://smartphonemagazine.nl/en/2024/06/01/the-next-gen-smartphones-could-redefine-tech-enter-the-intelli-phone/>

### **5. Man, 91, makes history by being the first in England to receive artificial cornea**

*91-year-old Cecil John Farley is the first person in England to have innovative artificial cornea transplant surgery. Now 200 people around the world use the "IndoArt" artificial cornea. The cornea is the clear outer layer at the front of the eyeball and is the "window of the eye" as described by the UK National Institutes of Health.*

**Source: Express.co.uk**

<https://www.express.co.uk/news/science/1907359/man-artificial-cornea-transplant-england>

### **6. Did you know two Buick Nailhead V8 engines were used to start the SR-71 Mach 3+ plane because the Blackbird didn't have a starter?**

*According to Autoevolution, the nailhead V8 engines were connected via a common transmission and drive shaft so they could work in tandem. The SR-71 spy plane, informally known as the Blackbird, was a long-range reconnaissance aircraft based on the Lockheed A-12 and YF-12A. The nailhead V8 served as the starter engine for the SR-71 and its cousins, the A-12 Archangel and YF-12 Fighter, until at least 1970.*

**Source: The Aviation Geek Club**

<https://theaviationgeekclub.com/did-you-know-two-buick-nailhead-v8-engines-were-used-to-start-the-sr-71-mach-3-plane-because-the-blackbird-didnt-have-a-starter/>

### **7. The Smartphone of the Middle Ages**

*A historian has succeeded in rewriting the amazing history of an ancient astronomical instrument with the help of sunlight. This device, known as the medieval smartphone, is the same astrolabe that was used to find out time and place in the past. The historian came across this astrolabe a few months ago while investigating another device. Like today's smartphones, astrolabes were also devices that people carried with them for time, chronology and navigation.*

**Source: Nautilus**

<https://nautil.us/the-smartphone-of-the-middle-ages-625924/>

### **8. Ancient snake drawings are among the largest known rock art worldwide**

*Anacondas and boa constrictors play a major role in the myths of the native people of the Orinoco. These snakes were deadly creatures that could kill humans and large animals. The art of rock paintings in Venezuela is one of the largest carvings ever found and dates back 2000 years. The 40 meter long snakes play the most prominent role in these works.*

**Source: New Scientist**

[https://www.newscientist.com/article/2433595-ancient-snake-drawings-are-among-the-largest-known-rock-art-worldwide/?utm\\_campaign=RSS%7CNSNS&utm\\_source=NSNS&utm\\_medium=RSS&utm\\_content=news](https://www.newscientist.com/article/2433595-ancient-snake-drawings-are-among-the-largest-known-rock-art-worldwide/?utm_campaign=RSS%7CNSNS&utm_source=NSNS&utm_medium=RSS&utm_content=news)

### **9. Japanese Company Plans to Build a Tower Into Space by 2050**

*The concept of a space elevator is not new, but engineering such a structure would be no easy task, and many issues other than technology could hinder it. Ishikawa's report suggests that Obayashi's company could use carbon nanotubes. Nanotubes are a layer of graphite, the same material used in pencils.*

**Source: Science Alert**

<https://www.sciencealert.com/japanese-company-plans-to-build-a-tower-into-space-by-2050>

### **10. NASA 3D Instagram 'experience' brings nebulas into your home**

*The Helix Nebula is an extended cloud of stellar matter located 650 light years away in the constellation Aquarius. The Cat's Eye Nebula is also a planetary nebula and is located 3262 light years away from Earth in the constellation of the Dragon. The experience of seeing the universe exactly as recorded by Chandra is a great experience for users, especially for those who like to get their information through social media.*

**Source: Space**

<https://www.space.com/nasa-chandra-x-ray-instagram-experience>