

What's Up in the Night Sky for SEPTEMBER



Presented by

Night Sky September 2024 Events | Planetary Alignment
<https://www.youtube.com/watch?v=ZqrvLTA5Q9U>

Tonight's Sky: September
<https://www.youtube.com/watch?v=k-qQSeAUfp0>

THE AUGUST ISSUE LISTED 10 AMAZING NASA INVENTIONS THAT RESHAPED OUR WORLD. HERE ARE 10 MORE

Source: 24/7 Wallist

1. Insulin pump

Needing to monitor astronauts' vital signs in space, the Goddard Space Flight Center created monitoring systems that have been adapted to regulate blood sugar levels and release insulin as needed.

2. Firefighting equipment

The polymer textiles created for use in space suits have been valuable in creating flame-retardant, heat-resistant suits for firefighters. Newer suits also feature circulating coolant to keep firefighters from succumbing to heat and advanced breathing systems modeled after astronaut life support systems.

3. DustBusters

During the Apollo moon landings, NASA partnered with Black & Decker to invent various battery-powered tools for drilling and taking rock samples in space. This led to the creation of the ultra-light, compact, cordless DustBuster.

4. Structural shock absorbers

Shock absorbers designed to protect equipment during space shuttle launches are now used to protect bridges and buildings in areas prone to earthquakes.

5. Water filtration

In the 1970s, NASA developed filtration systems that utilized iodine and cartridge filters to ensure that astronauts had access to safe, tasteless water. This filtering technology is now used around the world to purify water in at-risk communities.

6. Better tires

After the Goodyear Tire and Rubber Company invented the material used in NASA's Viking Lander parachute shrouds, the company began using it in its everyday radial tires. The material is stronger than steel and adds thousands of miles of life to the tires.

7. Wireless headsets

Along with two airline pilots who'd invented a prototype of a wireless headset, NASA built a light, hands-free communication system that would allow astronauts to communicate with teams on Earth. The technology was utilized in the Mercury and Apollo missions.

8. Invisible braces

After NASA and Ceradyne researchers discovered that polycrystalline alumina can protect radar equipment without blocking the radar's signal as it tracks heat-seeking missiles, Unitek Corporation/3M teamed up with Ceradyne, using the material to invent invisible braces for teeth.

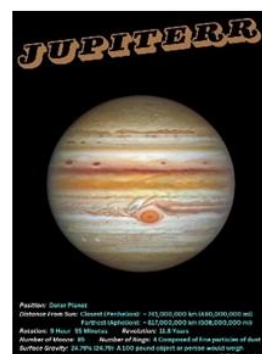
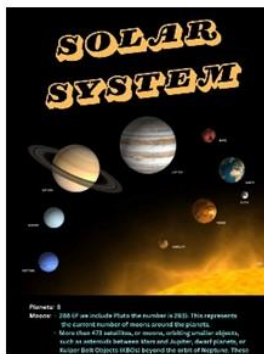
9. CAT scans

NASA's digital signal technology, originally used to recreate images of the moon during the Apollo missions, is the underlying technology that makes CAT scans and MRIs possible.

10. Lifeshears

The pyrotechnic mechanism used to detach a space shuttle from its rocket boosters after launching is the same used in Lifeshears, but on a smaller scale. Lifeshears are a tool that can be utilized in emergency situations to cut into cars or collapsed buildings to rescue people trapped inside.

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