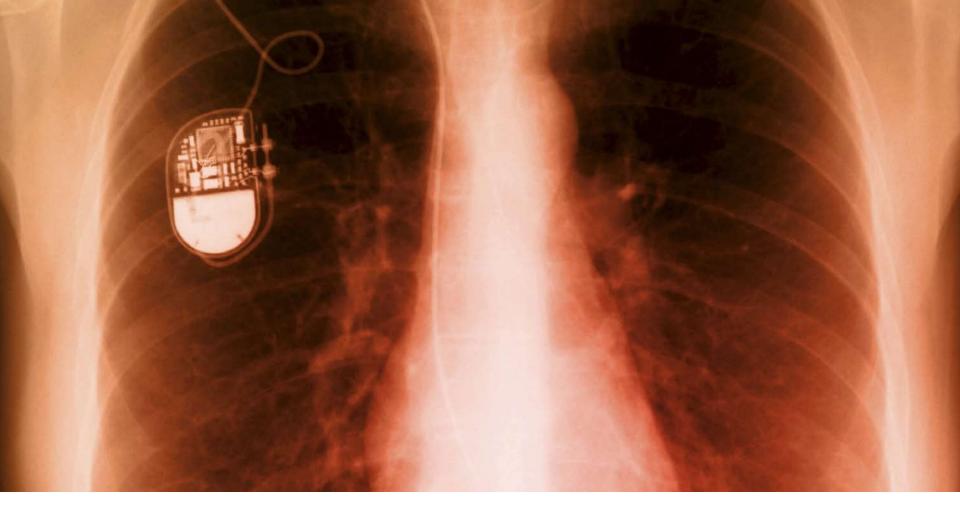
From \ASA TO



Technologies originally developed or utilized by NASA often transcend their initial objectives and reappear as innovative commercial materials or products that improve the lives of human beings each and every day. Check out these examples and see how NASA brings space-age technology to real life.



Matters of the Heart

Telemetry systems originally designed to monitor astronauts and spacecraft laid a foundation for the technology used in heart patients' pacemakers. Moreover, NASA satellite communication technology provided the springboard that permits doctors to monitor and adjust implanted pacemaker functions from outside the human body. Photo reprinted with permission from the Heart Rhythm Society.

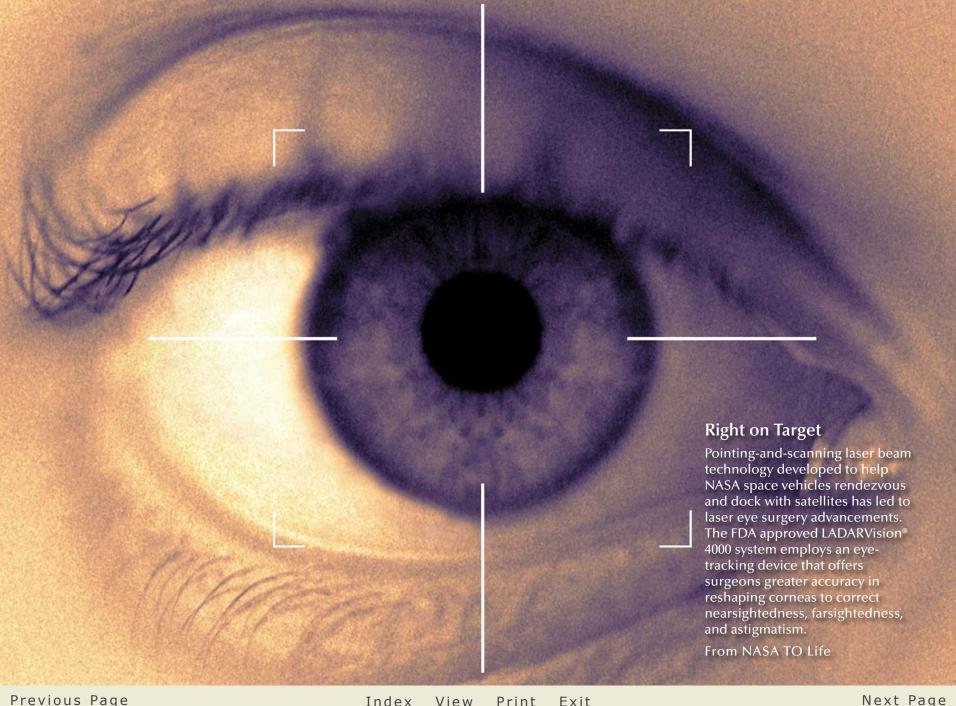


Forever Fresh

In order to grow plants in confined spaces like the Space Shuttle, a system to remove ethylene (a natural hormone that, in excess, causes plants to wither) is necessary. This NASA-sponsored technology can also be used to increase the shelf life of fruits, vegetables, and flowers in storage units and display cases.

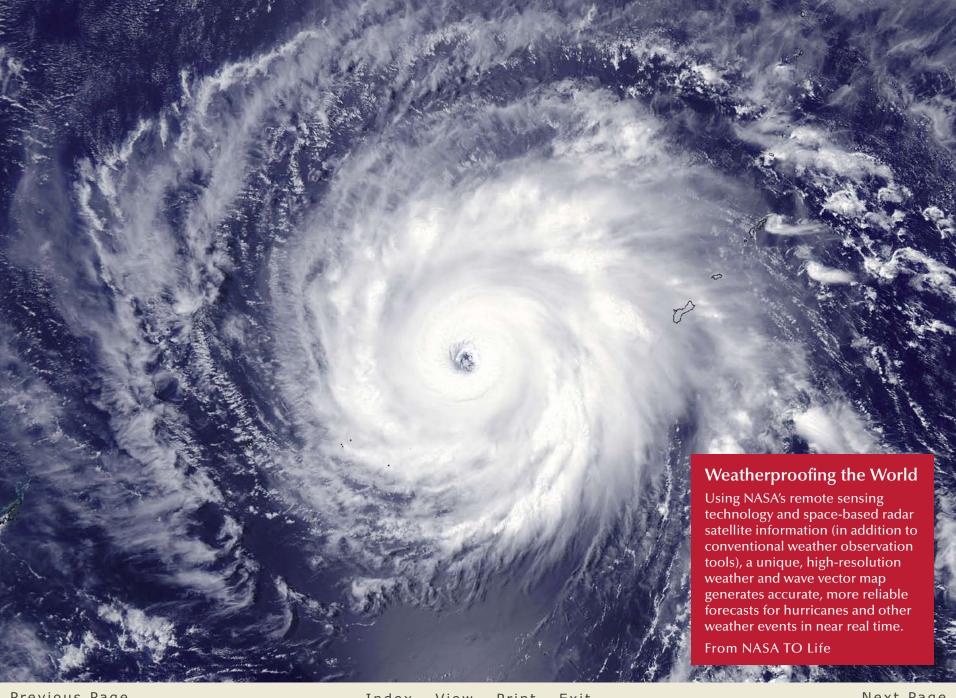












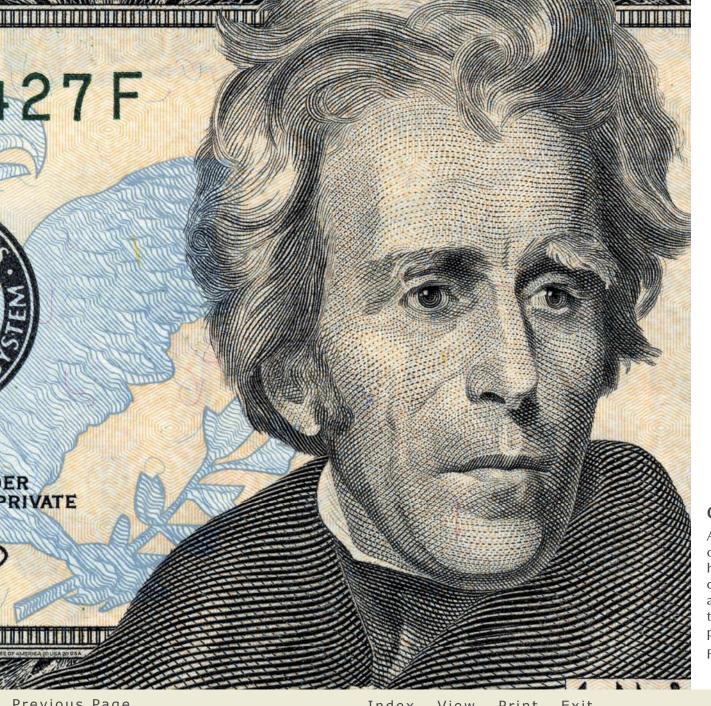






Picture Perfect

Video Image Stabilization and Registration (VISAR) technology, originally invented by NASA scientists to study the Sun and Earth's, weather systems, is providing to be a valuable tool in law enforcement and other security applications. VISAR-based commercial products can stabilize and enhance video images, brighten dark pictures, and enlarge portions of pictures to reveal previously hidden details without altering the underlying footage.



Counteracting Counterfeits

A hyperspectral image sensor originally created to support human exploration and development in space can now analyze images and inks on paper to help identify counterfeit money, passports, and documents.







Material Magic

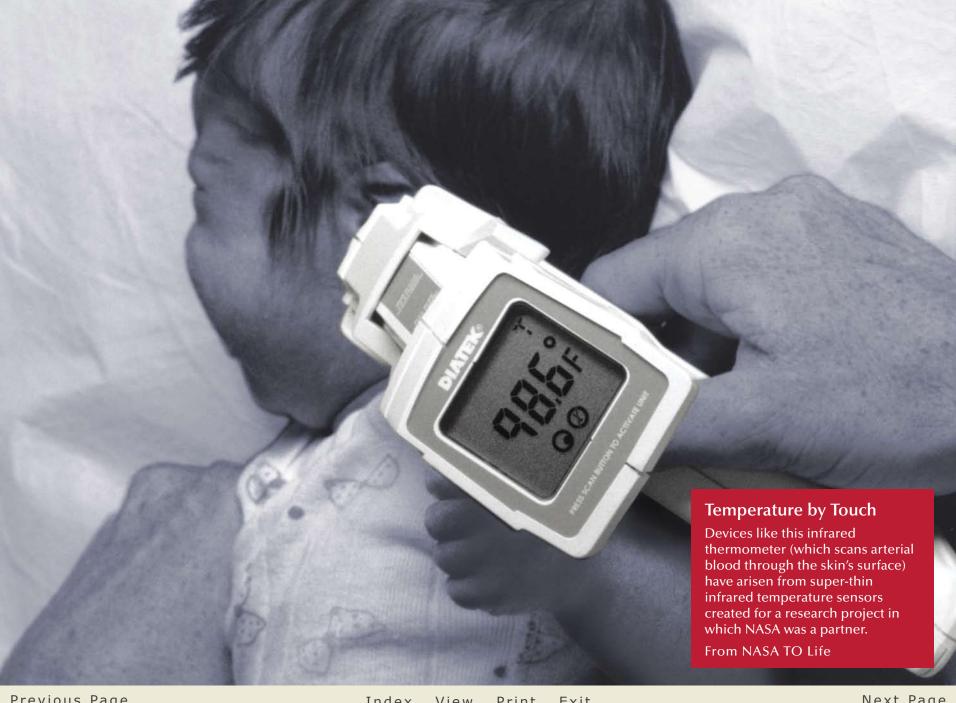
Microencapsulated phase-change materials used to insulate NASA space gloves are now being used in thermal clothing and footwear to protect people from excessive heat and cold here on Earth..













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Cool Shades

Sunglasses originally designed for NASA astronauts have been adapted for consumer use. The specially coated, scratch-resistant lenses protect eyes against harmful infrared and shortwave blue light, and the titanium-alloy frames are comfortably lightweight and prevent allergic reactions.



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