obscuring data. Examples of observatory spacecraft include the HST, Chandra, and Compton.

METHOD OF RECORDING AND CAPTURING IMAGES

Доп. - Скорик А.В., I-54 Наук. кер. - ст.викл. Початко Т.В

Photography" is derived from the Greek words photos ("light") and graphein ("to draw"). The word was first used by the scientist Sir John F.W. Herschel in 1839. It is a method of recording images by the action of light, or related radiation, on a sensitive material.

On a summer day in 1827, it took eight hours for Joseph Nicéphore Niépce to obtain the first fixed image. About the same time a fellow Frenchman, Louis Jacques Mandé Daguerre was experimenting to find a way to capture an image, but it would take another dozen years before he was able to reduce the exposure time to less than 30 minutes and keep the image from disappearing... ushering in the age of modern photography.

Louis-Jacques-Mandé Daguerre, inventor of the first practical process of photography, was born near Paris, France on November 18, 1789. A professional scene painter for the opera, Daguerre began experimenting with the effects of light upon translucent paintings in the 1820s. In 1829, he formed a partnership with Joseph Nicéphore Niépce to improve the process Niépce had developed to take the first

permanent photograph in 1826-1827. Niépce died in 1833.

After several years of experimentation, Daguerre developed a more convenient and effective method of photography, naming it after himself -- the daguerreotype. The daguerreotype was a positive-only process allowing no reproduction of the picture. Preparation of the plate prior to image exposure resulted in the formation of a layer of photo-sensitive silver halide, and exposure to a scene or image through a focussing lens formed a latent image. The latent image was made visible, or "developed", by placing the exposed plate over a slightly heated (about 75C) cup of mercury.

In 1839, he and Niépce's son sold the rights for the daguerreotype to the French government and published a booklet describing the process. The daguerreotype gained popularity quickly; by 1850, there were over seventy daguerreotype studios in New York City alone.

daguerreotype – дагерротипія Sir John F.W. Herschel – сер Джон Хершел Joseph Nicéphore Niépce – Джозеф Нісефор Н'єпс Louis Jacques Mandé Daguerre – Луі Жак Манде Дагер

HISTORY OF PARACHUTES

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Credit for the invention of the first practical parachute frequently goes to Sebastien Lenormand who demonstrated the parachute principle in 1783. However, parachutes had been imagined and sketched by Leonardo Da Vinci (1452-1519) centuries earlier and other inventors have designed parachutes, including Croatian Faust Vrancic who constructed a device based on Da Vinci's drawing and jumped from a Venice tower in 1617. Faust Vrancic published Machinae Novae, in which he describes in text and picture fifty-six advanced technical constructions, including Vrancic's parachute called the Homo Volans.

Jean Pierre Blanchard (1753-1809) a Frenchman was probably the first person to actually use a parachute for an emergency. In 1785, he dropped a dog in a basket, to which a parachute was attached, from a balloon high in the air. In 1793, Blanchard claims to have escaped from an exploded hot air balloon with a parachute. Blanchard, it should be noted, also developed the first foldable parachute made from silk, up until that point all parachutes were made from rigid frames.

In 1797 (October 22), Andrew Garnerin was the first person recorded to jump with a parachute without a rigid frame. Garnerin jumped from hot air ballons as high as 8,000 feet in the air. Garnerin