

WOMEN IN TECHNOLOGY (WITECH)



Technology in Our Daily Lives

(Technological Advancement)

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SOME FIELDS ADVANCING IN TECHNOLOGY

1. Medical

2. Communication

3. Information Technology

4. Film Industry



Walking sticks were a cheaper but laborious aid for walking



Prosthesis – an attempt to mimic the mechanical behaviour of the original natural part.

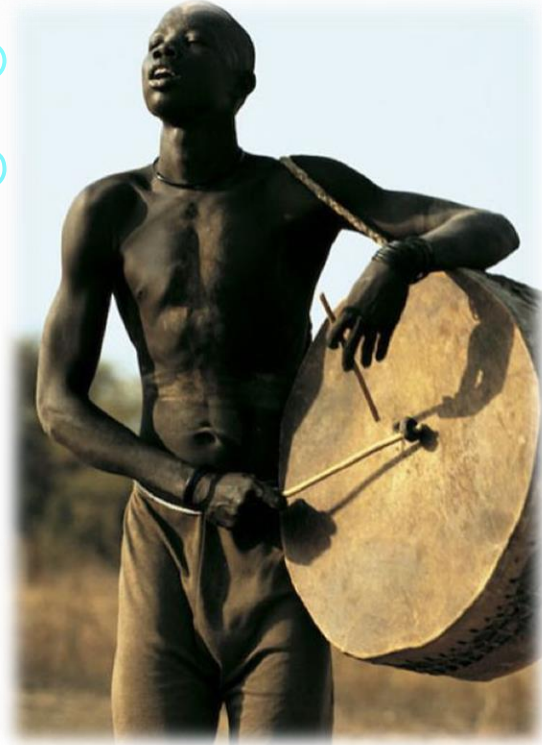


Wheel chair - invented to ease the on movement though it was available to mostly wealthy people

VIDEO :MEDICAL – WOMEN WITH PROSTHETIC LEGS AT PARALYMPICS



COMMUNICATION



DRUM BEAT

Different types of messages were conveyed using a particular drum beat



POST MAN

Messages conveyed in an envelope to an individual or company.



TELEPHONE

Messages conveyed vocally and in a short space of time

COMMUNICATION



Facsimile machine



Landline



Symbian phone era



Android phones



Bracelet phone



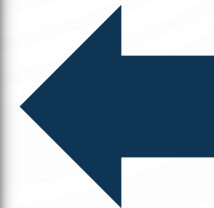
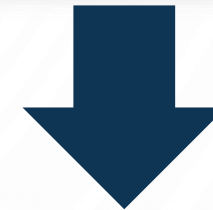
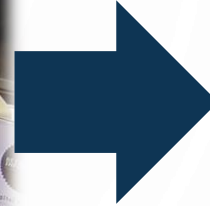
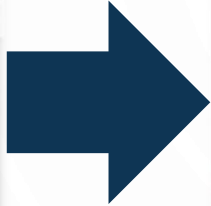
**Windows glass
holographic phone**

VIDEO: COMMUNICATION – HOLOGRAPHIC GLASS PHONE



A woman using a futuristic glass phone with the latest advanced holographic technology.

INFORMATION TECHNOLOGY - COMPUTERS



VIDEO: INFORMATION TECHNOLOGY – HOLOGRAPHIC GLASS TABLET



A woman using a futuristic glass tablet with the latest advanced holographic technology.

VIDEO: FILM INDUSTRY - SCIENCE FICTION MOVIES (SPIDERMAN)

The Science fiction film industry has evolved from movies which do not need much sophistication to those which use a lot of technology and innovations, which mimic abilities in humans coupled with those in animals.



VIDEO: FILM INDUSTRY – ADVANCED TECHNOLOGY IN SPIDERMAN HOMECOME



FILM INDUSTRY – 'SPIDERMAN' GECKO ADHESIVE

The climbing ability of geckos has attracted the interest of Materials scientists and engineer.

A gecko has sub-micrometre keratin hairs covering its feet. Each hair produces a miniscule force but millions of hairs acting together create a formidable adhesion sufficient to keep geckos firmly on their feet, even when upside down or on a glass window.

A new adhesive that mimics the gecko mechanism ('gecko tape') was created by microfabrication of dense arrays of flexible, self-cleaning, plastic pillars, the geometry of which is optimized to ensure their collective adhesion.



VIDEO: FILM INDUSTRY – SELF HEALING MATERIAL (T-1000 IN TERMINATOR 2



BEHOLD
THE
FUTURE

FILM INDUSTRY – T-1000 IN TERMINATOR 2

- **Tissues or organisms can heal themselves, provided the incurred damage is moderate. For example, after cutting, blood flows into the wound and clots, thus sealing the defect and allowing the skin to repair itself. A crack in bones is repaired due to regeneration of bone material.**
- **It would be very desirable to implement the ability of self-healing in inorganic materials, so that when these materials are cracked or damaged, a healing agent could be triggered to flow into the damaged area to “heal” the damage, essentially sealing the cracks (similar to the way in which an injury to the skin results in the formation of a scar).**
- **As engineering systems become more sophisticated and mimic more characteristics of biological systems, many new beneficial concepts can be realized. For example, the T-1000 is made from a ‘mimetic polyalloy’, which can self heal after an disturbance to it.**

FILM INDUSTRY – OTHER TECHNOLOGIES



**Invisible cloak –
The Invisible Man,
Harry Potter**



**Bullet proof
material –Cars,**



**Miniature robots –
Wolverine**

THE END

